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1.9 dtrace-provider 0.8.8

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1.10 rogpeppe-fastuid v1.2.0

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1.11 string_decoder 0.10.31

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1.12 compression 1.7.4

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1.13 for-each 0.3.3

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1.14 @babel/generator 7.18.12

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1.15 inflight 1.0.6

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1.16 afero 1.0.5

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1.17 @babel/helper-simple-access 7.18.6

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1.18 dns-prefetch-control 0.2.0

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1.19 chardet 3.0.4

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1.21 call-me-maybe 1.0.1

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1.22 jaeger-client 4.2.0

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Metadata-Version: 2.1

Name: jaeger-client

Version: 4.2.0

Summary: Jaeger Python OpenTracing Tracer implementation

Home-page: <https://github.com/jaegertracing/jaeger-client-python>

Author: Yuri Shkuro

Author-email: ys@uber.com

License: Apache License 2.0

Description: UNKNOWN

Keywords: jaeger,tracing,opentracing

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Natural Language :: English

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Provides-Extra: tests

Found in path(s):

* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/PKG-INFO

* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-

4.2.0/jaeger_client.egg-info/PKG-INFO

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update-license:

Found in path(s):

* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/Makefile

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license='Apache License 2.0',

Found in path(s):

* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/setup.py

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Found in path(s):

- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/span_context.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/metrics/metrics.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_tracer.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/conftest.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_local_agent_net.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_metrics.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_tracer_benchmark.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/__init__.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/codecs.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/server.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_codecs.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/tracer.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_config.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/config.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_api.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/ioloop_util.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/reporter.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/thriftw_serializer.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/sampler.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/constants.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/__init__.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_sampler.py
- * /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-

4.2.0/tests/test_span.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_span_context.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_throttler.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_rate_limiter.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_reporter.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/span.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/TUDPTransport.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/local_agent_net.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_crossdock.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_thrift.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/serializer.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/__init__.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/thrift.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/constants.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_TUDPTransport.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_prometheus.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_noop_tracer.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_utils.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/metrics/prometheus.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/rate_limiter.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_traceback_log.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/endtoend.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/utils.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/metrics/__init__.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-

4.2.0/jaeger_client/throttler.py

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How to Contribute to Jaeger

We'd love your help!

Jaeger is [Apache 2.0 licensed](LICENSE) and accepts contributions via GitHub pull requests. This document outlines some of the conventions on development workflow, commit message formatting, contact points and other resources to make it easier to get your contribution accepted.

We gratefully welcome improvements to documentation as well as to code.

Developing

This repository uses [virtualenv](https://pypi.python.org/pypi/virtualenv) and `pip` to manage dependencies. To install all dependencies, run:

1. `virtualenv env`
2. `source env/bin/activate`
3. `make bootstrap`
4. `make test`

Thrift

Thrift files are generated via `make thrift`. The IDL files are pulled from `jaeger-idl` repo which is defined as a submodule.

pycurl

On MacOS you may get an error:

...

```
ImportError: pycurl: libcurl link-time ssl backend (openssl) is different from compile-time ssl backend (none/other)
```

...

It can be fixed with:

...

```
pip uninstall pycurl
export LDFLAGS="-L/usr/local/opt/openssl/lib"
export CPPFLAGS="-I/usr/local/opt/openssl/include"
export PYCURL_SSL_LIBRARY=openssl
pip install --no-cache-dir --compile --ignore-installed --install-option="--with-openssl" --install-option="--openssl-dir=/usr/local/opt/openssl" pycurl
```

...

Making A Change

Before making any significant changes, please [open an issue](https://github.com/jaegertracing/jaeger-client-python/issues).

Discussing your proposed changes ahead of time will make the contribution process smooth for everyone.

Once we've discussed your changes and you've got your code ready, make sure that tests are passing (`make test`) and open your pull request.

Your pull request is most likely to be accepted if it:

- * Includes tests for new functionality.
- * Has a [good commit message](https://chris.beams.io/posts/git-commit/):
 - * Separate subject from body with a blank line
 - * Limit the subject line to 50 characters
 - * Capitalize the subject line
 - * Do not end the subject line with a period
 - * Use the imperative mood in the subject line
 - * Wrap the body at 72 characters
 - * Use the body to explain `_what_` and `_why_` instead of `_how_`
- * Each commit is signed by the author ([see below](#sign-your-work)).

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...

```
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```

```
#
```

```
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```

```
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```

```
#
```

```
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```

```
#
```

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```

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express
```

```
# or implied. See the License for the specific language governing permissions and limitations under
```

```
# the License.
```

```
...
```

```
## Sign your work
```

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...

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Version 1.1

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

...

then you just add a line to every git commit message:

Signed-off-by: Joe Smith <joe@gmail.com>

using your real name (sorry, no pseudonyms or anonymous contributions.)

You can add the sign off when creating the git commit via `git commit -s`.

If you want this to be automatic you can set up some aliases:

...

```
git config --add alias.amend "commit -s --amend"
```

```
git config --add alias.c "commit -s"
```

...

Found in path(s):

```
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/CONTRIBUTING.md
```

1.23 deep-is 0.1.4

1.23.1 Available under license :

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1.24 attrs v0.0.0-20190224210810-a9411de4debd

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1.25 frameguard 3.1.0

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1.26 go-uber-org-atomic v1.7.0

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1.27 aiohttp-swagger 1.0.16

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1.28 helmet-csp 2.10.0

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1.29 go-syslog v1.0.0

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1.31 brace-expansion 1.1.11

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1.33 oauth-sign 0.9.0

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1.35 dont-sniff-mimetype 1.1.0

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1.36 rcrowley-gometrics v0.0.0-20181016184325-3113b8401b8a

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1.37 bunyan 1.8.15

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1.38 clean-stack 2.2.0

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1.39 is-weakmap 2.0.1

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1.40 ecc-jsbn 0.1.2

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1.41 is-symbol 1.0.4

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1.42 gax-go v2.4.0

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1.43 js-yaml 3.13.1

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1.44 getpass 0.1.7

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1.45 @babel/helper-string-parser 7.18.10

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1.48 json iterator go v1.1.12

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1.49 set-blocking 2.0.0

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1.50 import-fresh 3.3.0

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1.51 word-wrap 1.2.3

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1.52 aws4 1.9.1

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1.53 acorn-jsx 5.3.2

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1.54 nyc 15.1.0

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1.55 is-string 1.0.7

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1.56 async-timeout 3.0.1

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1.57 supports-preserve-symlinks-flag 1.0.0

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1.58 cookie-signature 1.0.6

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```
# cookie-signature
```

```
Sign and unsign cookies.
```

```
## Example
```

```
```js
```

```
var cookie = require('cookie-signature');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```



...

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## 1.61 eslint-plugin-import 2.26.0

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## 1.67 functional-red-black-tree 1.0.1

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## 1.68 githubcomgolanglog v0.0.0-

## 20160126235308-23def4e6c14b

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## 1.72 bson 1.1.6

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```
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```

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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	2.4.1	2005	PSF	yes

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""" robotparser.py

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The robots.txt Exclusion Protocol is implemented as specified in <http://info.webcrawler.com/mak/projects/robots/norobots-rfc.html>

"""

## 1.82 [github.com/frankban/quicktest](https://github.com/frankban/quicktest) v1.14.3

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## 1.83 golang-org-x-image v0.0.0-20190802002840-cff245a6509b

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## 1.96 is-typed-array 1.1.9

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# 1.98 github.com/pelletier/go-toml/v2 v2.0.5

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# 1.99 which-boxed-primitive 1.0.2

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## 1.101 require-main-filename 2.0.0

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## 1.102 debounce 1.2.0

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# debounce

Useful for implementing behavior that should only happen after a repeated action has completed.

## Installation

\$ component install component/debounce

Or in node:

\$ npm install debounce

## Example

```
```js
var debounce = require('debounce');
window.onresize = debounce(resize, 200);

function resize(e) {
  console.log('height', window.innerHeight);
  console.log('width', window.innerWidth);
}
```
```

To later clear the timer and cancel currently scheduled executions:

```
```
window.onresize.clear();
```
```

To execute any pending invocations and reset the timer:

```
```
window.onresize.flush();
```
```

Alternately, if using newer syntax:

```
```js
import { debounce } from "debounce";
```
```

## API

### `debounce(fn, wait, [ immediate || false ])`

Creates and returns a new debounced version of the passed function that will postpone its execution until after `wait` milliseconds have elapsed since the last time it was invoked.

Pass `true` for the `immediate` parameter to cause `debounce` to trigger the function on the leading edge instead of the trailing edge of the wait interval. Useful in circumstances like preventing accidental double-clicks on a "submit" button from firing a second time.

The debounced function returned has a property `clear` that is a function that will clear any scheduled future executions of your function.

The debounced function returned has a property `flush` that is a function that will immediately execute the function if and only if execution is scheduled, and reset the execution timer for subsequent invocations of the debounced function.

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Found in path(s):

`*/opt/cola/permits/1112226737_1607051253.43/0/debounce-1-2-0-3-tgz/package/Readme.md`

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## 1.114 ignore 5.2.0

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## 1.117 uvloop 0.14.0

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## 1.118 raw-body 2.4.0

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## 1.120 **minimist 1.2.5**

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## 1.121 **github.com/go-kit/log v0.1.0**

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# 1.129 update-browserslist-db 1.0.5

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# 1.130 [github.com/go-mgo/mgo](https://github.com/go-mgo/mgo) v2.0.0-20160801194620-b6121c6199b7

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mgo - MongoDB driver for Go

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BSON library for Go

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# 1.131 x-time v0.0.0-20191024005414-555d28b269f0



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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 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
}

// 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, "gpic", 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"))
 unmarshalOptions := 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

 httpResp, 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 := 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"))

```

```

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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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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```

```
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
}

```

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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 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
}
```

// 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, "gopic", 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"))
 unmarshalOptions := 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

 httpResp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpResp.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"))
 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"))
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"))
 unmarshalOptions := 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(httpResp.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"))
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"))
 unmarshal := 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 := 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
}

```

## 1.133 release-zalgo 1.0.0

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## 1.134 commdir 1.0.1

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## 1.136 methods 1.1.2

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## 1.137 validator 13.7.0

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```
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```

```
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* /opt/cola/permits/1110639221_1606842346.93/0/fis-components-core-util-is-1-0-2-0-gb94b22f-tar-gz/fis-
components-core-util-is-5917000/lib/util.js
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# 1.148 parth v0.0.0-20190131123155-b4df798d6542

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# 1.149 lodash.isequal 4.5.0

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## 1.151 lodash.isplainobject 4.0.6

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## 1.152 object.assign 4.1.3

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## 1.153 aggregate-error 3.1.0

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## 1.154 ipaddr.js 1.9.1

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## 1.158 istanbuljs-load-nyc-config 1.1.0

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## 1.163 spaolacci-murmur3 v0.0.0-

## 20180118202830-f09979ecbc72

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# 1.193 sparse-bitfield 3.0.3

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## 1.204 on-finished 2.3.0

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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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| 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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## 1.238 graceful-fs 4.2.3

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## 1.240 compress v1.9.5

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```

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```

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Marc-Antoine Ruel <maruel@chromium.org>
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## 1.241 is-stream 2.0.1

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# 1.242 debug 2.6.9

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## 1.247 glob 7.1.6

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## 1.248 string-prototype-trimstart 1.0.5

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## 1.253 has-bigints 1.0.2

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## 1.254 @babel/helper-module-transforms

### 7.18.9

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## 1.255 mime-db 1.40.0

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## 1.276 @jridgewell/sourcemap-codec 1.4.14

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# 1.281 jinja2 3.0.3

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.3

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Changes, <https://jinja.palletsprojects.com/changes/>

Project-URL: Source Code, <https://github.com/pallets/jinja/>

Project-URL: Issue Tracker, <https://github.com/pallets/jinja/issues/>

Project-URL: Twitter, <https://twitter.com/PalletsTeam>

Project-URL: Chat, <https://discord.gg/pallets>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=3.6

Description-Content-Type: text/x-rst

Provides-Extra: i18n

License-File: LICENSE.rst

Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:



- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. \_pip: <https://pip.pypa.io/en/stable/getting-started/>

## In A Nutshell

-----

.. code-block:: jinja

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }

 {% for user in users % }
 {{ user.username }}
 {% endfor % }

{% endblock % }
```

## Donate

-----

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

## Links

-----

- Documentation: <https://jinja.palletsprojects.com/>
- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
- Issue Tracker: <https://github.com/pallets/jinja/issues/>
- Website: <https://palletsprojects.com/p/jinja/>
- Twitter: <https://twitter.com/PalletsTeam>
- Chat: <https://discord.gg/pallets>

Found in path(s):

\* /opt/cola/permits/1226387220\_1636997006.25/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO

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[metadata]

name = Jinja2

version = attr: jinja2.\_\_version\_\_

url = <https://palletsprojects.com/p/jinja/>

project\_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://jinja.palletsprojects.com/>

Changes = <https://jinja.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/jinja/>

Issue Tracker = <https://github.com/pallets/jinja/issues/>

Twitter = <https://twitter.com/PalletsTeam>

Chat = <https://discord.gg/pallets>

license = BSD-3-Clause

license\_files = LICENSE.rst

author = Armin Ronacher

author\_email = [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

maintainer = Pallets

maintainer\_email = [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

description = A very fast and expressive template engine.

long\_description = file: README.rst

long\_description\_content\_type = text/x-rst

classifiers =

Development Status :: 5 - Production/Stable

Environment :: Web Environment

Intended Audience :: Developers

License :: OSI Approved :: BSD License

Operating System :: OS Independent

Programming Language :: Python

Topic :: Internet :: WWW/HTTP :: Dynamic Content

Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:

package\_dir = = src

include\_package\_data = true

python\_requires = >= 3.6

[options.packages.find]

where = src

[options.entry\_points]

babel.extractors =

jinj2 = jinja2.ext:babel\_extract[!18n]

[tool:pytest]

testpaths = tests

filterwarnings =

error

ignore:The loop argument:DeprecationWarning:asyncio[.]base\_events:542

[coverage:run]

branch = True

source =

jinja2

tests

[coverage:paths]

source =

src

\*/site-packages

[flake8]

select = B, E, F, W, B9, ISC

ignore =

E203

E501

E722

W503

max-line-length = 80

per-file-ignores =

src/jinja2/\_\_\_init\_\_\_py: F401

[mypy]

files = src/jinja2

python\_version = 3.6

disallow\_subclassing\_any = True

disallow\_untyped\_calls = True

disallow\_untyped\_defs = True

disallow\_incomplete\_defs = True

no\_implicit\_optional = True

local\_partial\_types = True

no\_implicit\_reexport = True

strict\_equality = True

```
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

```
[mypy-jinja2.defaults]
no_implicit_reexport = False
```

```
[mypy-markupsafe]
no_implicit_reexport = False
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

```
* /opt/cola/permits/1226387220_1636997006.25/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg
```

## 1.282 define-properties 1.1.4

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# 1.283 camelcase 5.3.1

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# 1.285 firstline 1.3.1

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# 1.286 uuid v1.1.2

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

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## 1.291 wrappy 1.0.2

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## 1.292 levn 0.4.1

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## 1.295 toidentfier 1.0.0

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## 1.297 mdns v1.0.4

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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 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
}

// 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, "gpic", versionClient, "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())
```

```
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}
```

```
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()
```

```
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}
```

```
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{ }
```

```
if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}
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//

```



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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.
 }
 resp, err := c.Delete(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

```

}

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.
}
resp, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

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
}
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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"
 "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 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

 // 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()

 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, "gapi", versionClient, "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
 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()

 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}
}

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &compute.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{ proto: rsp }
return op, err
}

// 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 *compute.GetLicenseRequest, opts ...gax.CallOption)
(*compute.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{ "application/json" }

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
}

```

```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {

```

```

 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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()

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)

```

```

// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// 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()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {

```



```

 return nil, "", err
}

unm.Unmarshal(buf, resp)
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())

```

```

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}

```

```

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers

```

```

for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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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# 1.299 opentracing-instrumentation 3.3.1

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## 1.302 @apidevtools/openapi-schemas 2.1.0

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## 1.303 browserslist 4.21.3

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# 1.305 @babel/helper-validator-option 7.18.6

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# 1.306 safe-buffer 5.1.2

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## 1.308 [jwa](https://github.com/brennanj/jwa) 1.4.1

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## 1.312 types-json5 0.0.29

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## 1.315 githubcompkgsftp v1.13.1

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## 1.316 extsprintf 1.3.0

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# 1.317 golang 1.18.10

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\*

\* <http://docs.jquery.com/QUnit>

\*

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```

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*/
/**
* 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}
*/

```

Found in path(s):

```

* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js

```

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## # URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc). It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

## ## API

### ### Parsing

```

URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
// scheme : "uri",
// userinfo : "user:pass",
// host : "example.com",
// port : 123,
// path : "/one/two.three",
// query : "q1=a1&q2=a2",
// fragment : "body"
//}

```

### ### Serializing

```

URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"

```

### ### Resolving

```
URI.resolve("uri://a/b/c/d?q", "../g") === "uri://a/g"
```

### ### Normalizing

```
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
```

### ### Comparison

```
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/./b/%63/%7bfoo%7d") === true
```

### ### IP Support

//IPv4 normalization

```
URI.normalize("//192.068.001.000") === "//192.68.1.0"
```

//IPv6 normalization

```
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"
```

//IPv6 zone identifier support

```
URI.parse("//[2001:db8::7%25en1]");
```

//returns:

```
//{
```

```
// host : "2001:db8::7%en1"
```

```
//}
```

### ### IRI Support

//convert IRI to URI

```
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
```

//convert URI to IRI

```
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"
```

### ### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

\* ``scheme`` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

\* ``reference`` (string)

If set to ``suffix``, it indicates that the URI is in the suffix format, and the validator will use the option's ``scheme`` property to determine the URI's scheme.

\* `tolerant` (boolean, false)

If set to `true`, the parser will relax URI resolving rules.

\* `absolutePath` (boolean, false)

If set to `true`, the serializer will not resolve a relative `path` component.

\* `iri` (boolean, false)

If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

\* `unicodeSupport` (boolean, false)

If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

\* `domainHost` (boolean, false)

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

## Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI\_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

- \* http \[[RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)\]
- \* https \[[RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)\]
- \* mailto \[[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)\]
- \* urn \[[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)\]
- \* urn:uuid \[[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)\]

### HTTP Support

```
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
```

### Mailto Support

```
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{
// scheme : "mailto",
// to : ["alpha@example.com", "bravo@example.com"],
// subject : "SUBSCRIBE",
// body : "Sign me up!"
```



```
//}

URI.serialize({
 scheme : "mailto",
 to : ["alpha@example.com"],
 subject : "REMOVE",
 body : "Please remove me",
 headers : {
 cc : "charlie@example.com"
 }
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

### ### URN Support

```
URI.parse("urn:example:foo");
//returns:
//{
// scheme : "urn",
// nid : "example",
// nss : "foo",
//}
```

### #### URN UUID Support

```
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
// scheme : "urn",
// nid : "example",
// uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
```

### ## Usage

To load in a browser, use the following tag:

```
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```
npm install uri-js
```

Then, in your code, load it using:

```
const URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

```
Breaking changes
```

```
Breaking changes from 3.x
```

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

```
Breaking changes from 2.x
```

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

```
Breaking changes from 1.x
```

The `errors` array on parsed components is now an `error` string.

```
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```

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/**
```

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```

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*
```

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```

```
*/
```

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```
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```

Found in path(s):

```
*/opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js
```

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```
{ "version": 3, "sources": ["../src/util.ts", "../src/regexps-
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MAAM,GAAl,YAEExBC,GAAMP,EAACKO,GAAlD,MAAM,GACnBN,EAACKS,KAAK,UAEVT,GAACK,GAAlD,QA
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B, YAAa, SAACgD, EAAGC, EAAIC, SAAO, IAAMD, GAAMC, EAAK, MAAQA, EAAK, IAAM, OAG9I, gBAApB7E , GAAW+D, SACX9E, KAAK, OACLA, KAAKe, EAAW+D, KAAKxI, SAAS, MAGICmJ, EAAU/J, OAAS+J, EAAU3J , KAAK, IAAMK, UAShD, QAAA0J, GAAkCC, UAC3BnG, MAECmG, EAAMpK, WACRoK, EAAM3E, MAAM4E, K ACPD, EAAMtG, QAAQuG, EAAM, QACtB, IAAID, EAAM3E, MAAM6E, KACdF, EAAMtG, QAAQwG, EAAM, SA CtB, IAAIF, EAAM3E, MAAM8E, MACdH, EAAMtG, QAAQyG, GAAM, OACrBxJ, UACD, IAAC, MAAVqJ, GAA2B , OAAVA, IACnB, OACF, IACAI, GAAKJ, EAAM3E, MAAMgF, QACnBD, OAKG, IAAIE, OAAM, uCAJVC, GAAIH, EAAG, KACLJ, EAAMnK, MAAM0K, EAAE3K, UACfsE, KAAKqG, SAOR1G, GAAO7D, KAAK, IAGpB, QAAA w K, GAA0BvF, MAA0BwD, GAAPd9I, UAAAC, OAAA, GAAAD, UAAA, KAAAU, UAAAV, UAAA, MACOuF, EAA YuD, EAAQC, IAAMC, EAAeC, EACzCe, KAGAR, EAAgBC, GAASX, EAAQID, QAAUN, EAAWM, QAAU, IAAI1E , kBAGtEsI, GAAiBA, EAAcqB, WAAWtB, EAAcqB, UAAUvF, EAAyWd, GAE9ExD, EAAWW, QAEVV, EAAS0B, YAAyU, KAAKtC, EAAWW, WAKpC, IAAI6C, EAAQa, YAAeH, GAAiBA, EAAcG, iBAGID1D, KAAS6C, EAAQC , IAAmGa, EAASkB, UAAUxG, EAAWW, MAA3H2D, EAASC, QAAQvE, EAAWW, KAAKIC, QAAQwB, EAASM, Y AAaI, GAAazD, eAC7G, MAAO4I, KACG1G, MAAQkC, EAAWIC, OAAS, +CAAKD0F, EAAQC, IAAgB, UAAV, S AAuB, kBAAoBe, IAMzHxE, EAAyC, GAEd, WAAtBuD, EAAQI, WAA0B5D, EAAWM, WACtCrB, KAAKe, EAAW M, UACHBrB, KAAK, SAGVwG, GAAyHb, EAAoBzE, EAAyWd, MAC9CiC, IAACrK, YACS, WAAtBoI, EAAQI, aA CD3E, KAAK, QAGNA, KAAKwG, GAEXzF, EAAWa, MAASc, MAA9Bb, EAAWa, KAAK6E, OAAO, MACnZcG, K AAK, MAIbe, EAAWa, OAASzF, UAAW, IAC9BkK, GAAItF, EAAWa, IAEd2C, GAAQmC, cAAkBzB, GAAkBA, EA AcyB, iBAC1Db, EAAkqB, IAGnBG, IAACrK, cACbKk, EAAE7G, QAAQ, QAAS, WAGdQ, KAAKqG, SAGZtF, GAA WgB, QAAU5F, cACd6D, KAAK, OACLA, KAAKe, EAAWgB, QAGvBhB, EAAWkB, WAAa9F, cACjB6D, KAAK, O ACLA, KAAKe, EAAWkB, WAGpBwD, EAAU3J, KAAK, IAGvB, QAAA6K, GAAkCC, EAAoBC, MAAwBtC, GAA9 E9I, UAAAC, OAAA, GAAAD, UAAA, KAAAU, UAAAV, UAAA, MAAuGqL, EAAvGrL, UAAA, GACoWb, WAED 6J, OACGzC, EAAMiC, EAAUM, EAAMrC, GAAUA, KAC5BF, EAAMiC, EAAUO, EAAUtC, GAAUA, MAEtCA, O AELA, EAAQwC, UAAyF, EAASxG, UAC1BA, OAASwF, EAASxG, SAEIBG, SAAWqF, EAASrF, WACpBE, KAAO mF, EAASnF, OACHoD, KAAO+B, EAAS/B, OACHBID, KAAOiE, EAAkBgB, EAASjF, MAAQ, MAC1CG, MAAQ8 E, EAAS9E, QAEpB8E, EAASrF, WAAarF, WAAa0K, EAASnF, OAASvF, WAAa0K, EAAS/B, OAAS3I, aAEhFqF, SA AWqF, EAASrF, WACpBE, KAAOmF, EAASnF, OACHoD, KAAO+B, EAAS/B, OACHBID, KAAOiE, EAAkBgB, E AASjF, MAAQ, MAC1CG, MAAQ8E, EAAS9E, QAEpB8E, EAASjF, MAQmB, MAA5BiF, EAASjF, KAAK6E, OAA O, KACjB7E, KAAOiE, EAAkBgB, EAASjF, OAEpCgF, EAAKpF, WAAarF, WAAayK, EAAKIF, OAASvF, WAAayK , EAAK9B, OAAS3I, WAAeyK, EAAKhF, KAERfgF, EAAKhF, OAGTA, KAAOgF, EAAKhF, KAAKjG, MAAM, EAA GiL, EAAKhF, KAAKoF, YAAy, KAAO, GAAKH, EAASjF, OAFrEA, KAAOiF, EAASjF, OAFhBA, KAAO, IAAMiF, EAASjF, OAMvBA, KAAOiE, EAAkB5I, EAAO2E, SAEjCG, MAAQ8E, EAAS9E, UAnBjBH, KAAOgF, EAAKhF, K ACfiF, EAAS9E, QAAU5F, YACf4F, MAAQ8E, EAAS9E, QAEjBA, MAAQ6E, EAAK7E, SAKbFP, SAAWof, EAAKp F, WACHBE, KAAOkF, EAAKIF, OACZoD, KAAO8B, EAAK9B, QAEbzD, OAASuF, EAAKvF, UAGfY, SAAW4E, E AAS5E, SAEpBhF, EAGR, QAAAgK, GAAwBC, EAAgBC, EAAoB5C, MACrD6C, GAAoBpK, GAASqE, OAAS, QA AUkD, SAC/C+B, GAAUK, EAAkbtC, EAAM6C, EAASE, GAAoB/C, EAAM8C, EAAaC, GAAoBA, GAAMb, GAAO A, GAKxI, QAAAC, GAA0BC, EAAS/C, SACf, gBAAR+C, KACJhB, EAAUjC, EAAMiD, EAAK/C, GAAUA, GACX, WAAhBtI, EAAOqL, OACXjD, EAAMiC, EAAyBgB, EAAK/C, GAAUA, IAG9C+C, EAKR, QAAAC, GAASBC, EAA UC, EAAUID, SACrB, gBAATiD, KACHIB, EAAUjC, EAAMmD, EAAMjD, GAAUA, GACZ, WAAjBtI, EAAOuL, O ACVIB, EAAyBkB, EAAMjD, IAGnB, gBAATkD, KACHnB, EAAUjC, EAAMoD, EAAMID, GAAUA, GACZ, WAAj BtI, EAAOwL, OACVnB, EAAyBmB, EAAMID, IAGhCiD, IAASC, EAGjB, QAAAC, GAAgC1L, EAAyU, SACpCvI, IA AO, EAAIM, WAAWkD, QAAU+E, GAAYA, EAAQC, IAA4BC, EAAakD, OAAncjD, EAAaiD, OAA+B1H, GA G9G, QAAA2H, GAAkC5L, EAAyU, SACtCvI, IA AO, EAAIM, WAAWkD, QAAU+E, GAAYA, EAAQC, IAAiCC, EAAanD, YAAxCoD, EAAapD, YAAyCIB, GC1exH, QAGAA, GAA0BjF, MACnBkF, GAASd, EAAyPE, SACIBkF, G AAOC, MAAMC, IAAoBF, EAANIF, EHmBrC, GAAA0I, GAAetH, GAAU, GIrFzBqH, EAAerH, GAAU, 2iBHAnByK , EAAS, WAAtc, EAAgB, QACHBC, EAAgB, aACHbtI, EAAkB, 4BAGIBT, YACO, 8DACC, iEACI, iBAKZgJ, EAAQC , KAAKD, MACbE, EAAqBxH, OAAOC, aAsG5BwH, EAAa, SAAAJ, SAASwB, QAAO0H, CAAPC, MAAA3H, OAA A4H, EAAwBpJ, KAW9CqJ, EAAe, SAASC, SACzBA, GAAy, GAAO, GACfA, EAAy, GAehBA, EAAy, GAAO, GA CfA, EAAy, GAehBA, EAAy, GAAO, GACfA, EAAy, GAjJR, IAiKPC, EAAe, SAASC, EAAOC, SAG7BD, GAAQ, G

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/Re,oCAkSnBU,KAA2BjE,EAA3BkE,OAAAC,cAAAC,GAAAH,EAAAI,EAAAC,QAAAC,MAAAH,GAAA,EA  
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EA rVA,IAqV8BA,GA rV9B,GAqVyC,IAC3CU,GAAIV,GAACK,EA rVP,EAqVsBL,GAACK,EA pV3B,GAAA,G  
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E,EA AW+D,SAC3FA,KAAO3I,WAlD4E,EA AWa,SACJA,KAAO,KAOZb,IC5BHOk,WACI,mBACIC,GA AKhG,  
iBACVgG,GA AK/G,gBACD+G,GA AK9E,WHSZ+E,MAIA5M,GA Ae,mGACfnB,GA AW,cACXC,GA AexB,EA  
OA,EAAO,sBAA6BuB,GA AWA,GA AW,IAAMA,GA AWA,IAAY,IAAMvB,EAAO,0BAAiCuB,GA AWA,IAAY,  
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yBwC,QAAS,QAASKQ,IAAU,KA E9EE,GAAa,GAAI9M,QAAOtD,EAAM,MAAOqD,GAjBrB,uCAiBmD,KACn  
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P,EAAGjQ,OAAQG,EAAlD,IAAMC,EAAG,IACtCsQ,GAAOR,EAAG9P,GAAGW,MAAM,UA EpB,GA AKoL,E





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characters\n\t\tPRIVATE$$ = isIRI ? "[\uE000-\uF8FF]" : "[]", //subset\n\t\tUNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, "[\u0025-\u0039~]", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, "[\u0025-\u0039~]")) + "*" ,\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
"\\" + merge(UNRESERVED$$, SUB_DELIMSS$, "[\u0025-\u0039~]")) + "*"),\n\t\tDEC_OCTETS$ =
subexp(subexp("\u0025[0-5]") + "\" + subexp("\u0025[0-4]" + DIGIT$$) + "\" + subexp("1" + DIGIT$$ + DIGIT$$) +
"\\" + subexp("[1-9]" + DIGIT$$) + "\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp("\u0025[0-
5]" + "\" + subexp("\u0025[0-4]" + DIGIT$$) + "\" + subexp("1" + DIGIT$$ + DIGIT$$) + "\" + subexp("0?[1-
9]" + DIGIT$$) + "\"0?0?" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + "\u0025." + DEC_OCTET_RELAXED$ + "\u0025." +
DEC_OCTET_RELAXED$ + "\u0025." + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
"\{1,4\}"),\n\t\tLS32$ = subexp(subexp(H16$ + "\u0025." + H16$) + "\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(
subexp(H16$ + "\u0025." + "\{6\}" + LS32$), // 6(
h16 \":\") ls32\n\t\tIPV6ADDRESS2$ = subexp(
"\u0025:\u0025:" + subexp(H16$ + "\u0025." +
"\{5\}" + LS32$), // "\u0025:" 5(h16 \":\") ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
H16$) + "\u0025:\u0025:" + subexp(H16$ + "\u0025." + "\{4\}" + LS32$), //[\u0025 h16 \":\" 4(h16 \":\")
ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + "\u0025." + "\{0,1\}" + H16$) + "\u0025:\u0025:" +
subexp(H16$ + "\u0025." + "\{3\}" + LS32$), //[*1(h16 \":\") h16] \":\" 3(h16 \":\") ls32\n\t\tIPV6ADDRESS5$
= subexp(subexp(subexp(H16$ + "\u0025." + "\{0,2\}" + H16$) + "\u0025:\u0025:" + subexp(H16$ + "\u0025." + "\{2\}" +
LS32$), //[*2(h16 \":\") h16] \":\" 2(h16 \":\") ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ +
"\u0025." + "\{0,3\}" + H16$) + "\u0025:\u0025:" + H16$ + "\u0025." + LS32$), //[*3(h16 \":\") h16] \":\" h16
\":\" ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + "\u0025." + "\{0,4\}" + H16$) + "\u0025:\u0025:"
+ LS32$), //[*4(h16 \":\") h16] \":\" ls32\n\t\tIPV6ADDRESS8$ =
subexp(subexp(subexp(H16$ + "\u0025." + "\{0,5\}" + H16$) + "\u0025:\u0025:" + H16$), //[*5(h16
\":\") h16] \":\" h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ + "\u0025." + "\{0,6\}" + H16$)
+ "\u0025:\u0025:"), //[*6(h16 \":\") h16] \":\" \n\t\tIPV6ADDRESS$ =
subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join("\\")),\n\t\tZONEID$ =
subexp(subexp(UNRESERVED$$ + "\" + PCT_ENCODED$) + "+"), //RFC 6874\n\t\tIPV6ADDRZ$ =
subexp(IPV6ADDRESS$ + "\u0025%25" + ZONEID$), //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS$ + subexp("\u0025%25\u0025(?!)" + HEXDIG$$ + "\{2\}")) + ZONEID$), //RFC 6874, with
relaxed parsing rules\n\t\tIPVFUTURE$ = subexp("[vV]" + HEXDIG$$ + "+" + "\u0025." + merge(UNRESERVED$$,
SUB_DELIMSS$, "[\u0025-\u0039~]")) + "+"),\n\t\tIP_LITERAL$ = subexp("\u0025[" + subexp(IPV6ADDRZ_RELAXED$ +
"\\" + IPV6ADDRESS$ + "\" + IPVFUTURE$) + "\u0025]"), //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + "\" + merge(UNRESERVED$$, SUB_DELIMSS$)) + "*"),\n\t\tHOST$ =
subexp(IP_LITERAL$ + "\" + IPV4ADDRESS$ + "(?!)" + REG_NAME$ + "\") + "\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + "*"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
"@") + "?" + HOST$ + subexp("\u0025:" + PORT$) + "?"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + "\" +
merge(UNRESERVED$$, SUB_DELIMSS$, "[\u0025-\u0039~@]")) ,\n\t\tSEGMENT$ = subexp(PCHAR$ +
"*"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + "+"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + "\" + merge(UNRESERVED$$, SUB_DELIMSS$, "[\u0025-\u0039~@]")) +
"+"),\n\t\tPATH_ABEMPTY$ = subexp(subexp("\u0025/" + SEGMENT$) + "*"),\n\t\tPATH_ABSOLUTE$ =
subexp("\u0025/" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + "?"), //simplified\n\t\tPATH_NOSCHEMES
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = "(?!)" + PCHAR$ +
"\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + "\" + PATH_ABSOLUTE$ + "\" + PATH_NOSCHEMES$ +
"\\" + PATH_ROOTLESS$ + "\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + "\" +
merge("\u0025/\u0025/?]", PRIVATE$$)) + "*"),\n\t\tFRAGMENTS$ = subexp(subexp(PCHAR$ + "\u0025/\u0025/?]" +
"*"),\n\t\tHIER_PART$ = subexp(subexp("\u0025/\u0025/" + AUTHORITY$ + PATH_ABEMPTY$) + "\" +

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PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$),\n\tURI$ = subexp(SCHEMES$ +
"\\\\:" + HIER_PART$ + subexp("\\|?" + QUERY$) + "?" + subexp("\\|#" + FRAGMENTS$) +
"?"),\n\tRELATIVE_PART$ = subexp(subexp("\\|/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$),\n\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp("\\|?" + QUERY$) + "?" + subexp("\\|#" + FRAGMENTS$) +
"?"),\n\tURI_REFERENCES$ = subexp(URI$ + "|" + RELATIVES$),\n\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "\\\\:" + HIER_PART$ + subexp("\\|?" + QUERY$) + "?"),\n\tGENERIC_REF$ =
"^((" + SCHEMES$ + ")\|):" + subexp(subexp("\\|/" + subexp("(" + USERINFO$ + ")@") + "?" +
HOST$ + ")") + subexp("\\|:((" + PORT$ + ")") + "?") + "?" + PATH_ABEMPTY$ + "|" +
PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("\\|?" +
QUERY$ + ")") + "?" + subexp("\\|#(" + FRAGMENTS$ + ")") + "?$",\n\tRELATIVE_REF$ = "^(0|" +
subexp(subexp("\\|/" + subexp("(" + USERINFO$ + ")@") + "?" + HOST$ + ")") + subexp("\\|:" +
PORT$ + ")") + "?") + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_NOSCHEMES$ + "|" + PATH_EMPTY$ + ")") + subexp("\\|?" + QUERY$ + ")") + "?" +
subexp("\\|#(" + FRAGMENTS$ + ")") + "?$",\n\tABSOLUTE_REF$ = "^((" + SCHEMES$ + ")\|):" +
subexp(subexp("\\|/" + subexp("(" + USERINFO$ + ")@") + "?" + HOST$ + ")") + subexp("\\|:" +
PORT$ + ")") + "?") + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("\\|?" + QUERY$ + ")") +
"?" + "\n\tSAMEDOC_REF$ = " + subexp("\\|#(" + FRAGMENTS$ + ")") +
"?" + "\n\tAUTHORITY_REF$ = " + subexp("(" + USERINFO$ + ")@") + "?" + HOST$ + ")") +
subexp("\\|:" + PORT$ + ")") + "?$",\n\treturn { \n\t\tNOT_SCHEME : new RegExp(merge("[^]",
ALPHA$$, DIGIT$$, "[\\\\+\\\\-\\\\._]", "g"), \n\t\tNOT_USERINFO : new RegExp(merge("[^\\\\%\\\\:]",
UNRESERVED$$, SUB_DELIMS$$), "g"), \n\t\tNOT_HOST : new RegExp(merge("[^\\\\%\\\\|\\\\[\\\\]\\\\:]",
UNRESERVED$$, SUB_DELIMS$$), "g"), \n\t\tNOT_PATH : new RegExp(merge("[^\\\\%\\\\|\\\\:\\\\@]",
UNRESERVED$$, SUB_DELIMS$$), "g"), \n\t\tNOT_PATH_NOSCHEM : new
RegExp(merge("[^\\\\%\\\\|\\\\@]", UNRESERVED$$, SUB_DELIMS$$), "g"), \n\t\tNOT_QUERY : new
RegExp(merge("[^\\\\%]", UNRESERVED$$, SUB_DELIMS$$, "[\\\\:\\\\|\\\\@\\\\|\\\\?]", IPRIVATE$$),
"g"), \n\t\tNOT_FRAGMENT : new RegExp(merge("[^\\\\%]", UNRESERVED$$, SUB_DELIMS$$,
"[\\\\:\\\\|\\\\@\\\\|\\\\?]", "g"), \n\t\tESCAPE : new RegExp(merge("[^]", UNRESERVED$$, SUB_DELIMS$$),
"g"), \n\t\tUNRESERVED : new RegExp(UNRESERVED$$, "g"), \n\t\tOTHER_CHARS : new
RegExp(merge("[^\\\\%]", UNRESERVED$$, RESERVED$$), "g"), \n\t\tPCT_ENCODED : new
RegExp(PCT_ENCODED$, "g"), \n\t\tIPV4_ADDRESS : new RegExp("^(" + IPV4_ADDRESS$ +
")$"), \n\t\tIPV6_ADDRESS : new RegExp("^\\\\[?(" + IPV6_ADDRESS$ + ")") +
subexp(subexp("\\|%25\\\\|%?!)" + HEXDIG$$ + "{2}")) + "(" + ZONEID$ + ")") + "??|]?") //RFC 6874,
with relaxed parsing rules\n\t;\n}\n\nexport default buildExps(false);\n\n,"use strict";\n\n/** Highest positive signed
32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters
*\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias =
72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // "\x2D"\n\n/** Regular expressions *\nconst
regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\0-\x7E]/; // non-ASCII chars\nconst regexSeparators =
/[\x2E\u3002\uFF0E\uFF61]/g; // RFC 3490 separators\n\n/** Error messages *\nconst errors = {\n\t'overflow':
'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code
point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts *\nconst baseMinusTMin = base -
tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n*-----
-----\n\n/** A generic error utility function.\n * @private\n * @param
{String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n
*\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/** A generic `Array#map` utility
function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the

```

```

callback function.\n * \nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--)\n\t\tresult[length] = fn(array[length]);\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to\n * work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain\n * name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n * \nfunction\n * mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email\n\t\taddresses, only the domain name should be punycode'd. Leave\n\t\t// the local part (i.e. everything up to `@`)\n\t\tintact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t\t// Avoid `split(regex)` for IE8 compatibility. See\n\t\t#17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tconst labels = string.split('.');\n\t\tconst encoded =\n\t\tmap(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n/**\n * Creates an array containing the numeric code\n * points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will\n * convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code\n * point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see\n * <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n * \nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile\n * (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=\n * 0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =\n * string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low\n * surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an\n * unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a\n * surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric\n * code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param\n * {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n * \nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a\n * digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code\n * point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers)\n * in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n * \nconst basicToDigit =\n * function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 <\n * 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint -\n * 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The\n * basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior\n * is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n * \nconst digitToBasic = function(digit,\n * flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) -\n * ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n * \nconst adapt = function(delta, numPoints,\n * firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n * delta += floor(delta /\n * numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta\n * / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a\n * Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of\n * Unicode symbols.\n * \nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst\n * inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\t// Handle the basic code\n * points: let `basic` be the number of input code\n * points before the last delimiter, or `0` if there is none, then\n * copy\n * the first basic code points to the output.\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0)

```



parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in ASCII.

`@memberOf punycode`

`@param {String}` input The domain name or email address to convert, as a Unicode string.

`@returns {String}` The Punycode representation of the given domain name or email address.

```

const toASCII = function(input) {
 return mapDomain(input, function(string) {
 return regexNonASCII.test(string) ? 'xn--' + encode(string) : string;
 });
};

```

-----

-----

`Define the public API`

```

const punycode = {
 version: '2.1.0',
 // ...
}

```

A string representing the current Punycode.js version number.

`@memberOf punycode`

`@type String`

`version`: '2.1.0',

An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.

`@see <https://mathiasbynens.be/notes/javascript-encoding>`

`@memberOf punycode`

`@type Object`

```

{
 decode: decode,
 encode: encode,
 toASCII: toASCII,
 toUnicode: toUnicode,
}

```

`export default punycode;`

URI.js

`@fileoverview` An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.

`@author` <a href="mailto:gary.court@gmail.com">Gary Court</a>

`@see` <http://github.com/garycourt/uri-js>

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```

import URI_PROTOCOL from './regexp-uri';
import IRI_PROTOCOL from './regexp-iri';
import punycode from 'punycode';
import { toUpperCase, typeOf, assign } from './util';

export interface URIComponents {
 scheme?: string;
 userinfo?: string;
 host?: string;
 port?: number | string;
 path?: string;
 query?: string;
 fragment?: string;
 reference?: string;
 error?: string;
}

export interface URIOptions {
 scheme?: string;
 reference?: string;
 tolerant?: boolean;
 absolutePath?: boolean;
 iri?: boolean;
 unicodeSupport?: boolean;
 domainHost?: boolean;
}

export interface URISchemeHandler<Components> extends URIComponents {
 parse(components: ParentComponents, options: Options): Components;
 serialize(components: Components, options: Options): ParentComponents;
 unicodeSupport?: boolean;
 domainHost?: boolean;
 absolutePath?: boolean;
}

export interface URIRegExps {
 NOT_SCHEME: RegExp;
 NOT_HOST: RegExp;
 NOT_PATH: RegExp;
 NOT_PATH_NOSCHEME: RegExp;
 NOT_QUERY: RegExp;
 NOT_FRAGMENT: RegExp;
 ESCAPE: RegExp;
 UNRESERVED: RegExp;
 OTHER_CHARS: RegExp;
 PCT_ENCODED: RegExp;
 IPV4ADDRESS: RegExp;
 IPV6ADDRESS: RegExp;
}

export const SCHEMES: {[scheme: string]: URISchemeHandler} = {};

export function pctEncChar(chr: string): string {
 const c = chr.charCodeAt(0);
 let e: string;
 if (c < 16) e = "%0" + c.toString(16).toUpperCase();
 else if (c < 128) e = "%" + c.toString(16).toUpperCase();
 else if (c < 65536) e = "%" + c.toString(16).toUpperCase();
 else e = "%0" + c.toString(16).toUpperCase();
}

```

```

< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
str.length;\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\t\tif (c < 128) {\n\t\t\tnewStr +=
String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst
c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t\t}
else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t\ti += 6;\n\t\t\t}\n\t\t\telse if (c >= 224) {\n\t\t\t\tif ((il - i) >= 9)
{\n\t\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\t\tnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\t\t} else {\n\t\t\t\t\tnewStr +=
str.substr(i, 9);\n\t\t\t\t\ti += 9;\n\t\t\t\t}\n\t\t\t\telse {\n\t\t\t\t\tnewStr += str.substr(i, 3);\n\t\t\t\t\ti +=
3;\n\t\t\t\t}\n\t\t}\n\t}\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents,
protocol:URIScheme) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr =
pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\tif (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components userinfo !==
undefined) components userinfo = String(components userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOScheme), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n}\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^*(.*)/, \"\$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIScheme):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIScheme):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\tif (address) {\n\t\tconst [last,
first] = address.toLowerCase().split(\"::\").reverse();\n\t\tconst firstFields = first ?
first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields =
last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || \"\";\n\t\t}\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else
{\n\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t}\n\t\t\t}\n\t\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\tlet newHost:string;\n\t\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index);

```





```

protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => `[` + $1 + ($2 ? `%25` + $2 : ``) + `]`);
(typeof components.port === `number`)
{
 uriTokens.push(`:`);
 uriTokens.push(components.port.toString(10));
 return uriTokens.length ?
 uriTokens.join(``) : undefined;
}
const RDS1 = /^\\.\\.?.?\\/;
const RDS2 = /^\\|\\.(\\|$/);
const RDS3 =
/^\\|\\.(\\|$/);
const RDS4 = /^\\.\\.?.?$/;
const RDS5 = /^\\/?(?:.\\|\\n)*?(?=\\|$/);
export function
removeDotSegments(input:string):string {
 const output:Array<string> = [];
 while (input.length) {
 if (input.match(RDS1)) {
 input = input.replace(RDS1, ``);
 } else if (input.match(RDS2)) {
 input = input.replace(RDS2, `^`);
 } else if (input.match(RDS3)) {
 input = input.replace(RDS3,
 `^`);
 output.pop();
 } else if (input === `.` || input === `..`) {
 input = ``;
 } else {
 const
 im = input.match(RDS5);
 if (im) {
 const s = im[0];
 input =
 input.slice(s.length);
 output.push(s);
 } else {
 throw new Error(`Unexpected dot segment
 condition`);
 }
 }
 }
 return output.join(``);
}
export function
serialize(components:URISchemeComponents, options:URISchemeOptions = {}):string {
 const protocol = (options.iri ?
 IRI_PROTOCOL : URI_PROTOCOL);
 const uriTokens:Array<string> = [];
 //find scheme handler
 const
 schemeHandler = SCHEMES[(options.scheme || components.scheme || ``).toLowerCase()];
 //perform scheme
 specific serialization
 if (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components,
 options);
 if (components.host) {
 //if host component is an IPv6 address
 if (protocol.IPV6ADDRESS.test(components.host)) {
 //TODO: normalize IPv6 address as per RFC
 5952
 }
 //if host component is a domain name
 else if (options.domainHost || (schemeHandler &&
 schemeHandler.domainHost)) {
 //convert IDN via punycode
 try {
 components.host = (!options.iri
 ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
 punycode.toUnicode(components.host));
 } catch (e) {
 components.error = components.error || `Host's
 domain name can not be converted to ` + (!options.iri ? `ASCII` : `Unicode`) + ` via punycode: ` +
 e;
 }
 //normalize encoding
 normalizeComponentEncoding(components, protocol);
 (options.reference !== `suffix` && components.scheme)
 {
 uriTokens.push(components.scheme);
 uriTokens.push(`:`);
 const authority =
 _recomposeAuthority(components, options);
 if (authority !== undefined) {
 if (options.reference !==
 `suffix`) {
 uriTokens.push(`/`);
 uriTokens.push(authority);
 if (components.path &&
 components.path.charAt(0) !== `^`) {
 uriTokens.push(`/`);
 }
 if (components.path !==
 undefined) {
 let s = components.path;
 if (!options.absolutePath && (!schemeHandler ||
 !schemeHandler.absolutePath)) {
 s = removeDotSegments(s);
 }
 if (authority === undefined) {
 s = s.replace(/^\\|\\/, ``%2F`);
 //don't allow the path to start with
 `//`
 }
 uriTokens.push(s);
 }
 if (components.query !== undefined) {
 uriTokens.push(`?`);
 uriTokens.push(components.query);
 }
 if (components.fragment !==
 undefined) {
 uriTokens.push(`#`);
 uriTokens.push(components.fragment);
 }
 }
 return
 uriTokens.join(``);
 }
 //merge tokens into a string
 }
 export function resolveComponents(base:URISchemeComponents,
 relative:URISchemeComponents, options:URISchemeOptions = {}, skipNormalization?:boolean):URISchemeComponents {
 const
 target:URISchemeComponents = {};
 if (!skipNormalization) {
 base = parse(serialize(base, options), options);
 //normalize base components
 relative = parse(serialize(relative, options), options);
 //normalize relative
 components
 }
 options = options || {};
 if (!options.tolerant && relative.scheme) {
 target.scheme =
 relative.scheme;
 //target.authority = relative.authority;
 target.userInfo = relative.userInfo;
 target.host =
 relative.host;
 target.port = relative.port;
 target.path = removeDotSegments(relative.path ||
 ``);
 target.query = relative.query;
 } else {
 if (relative.userInfo !== undefined || relative.host !==
 undefined || relative.port !== undefined) {
 target.authority = relative.authority;
 target.userInfo =
 relative.userInfo;
 target.host =
 relative.host;
 target.port = relative.port;
 target.path =
 removeDotSegments(relative.path || ``);
 target.query = relative.query;
 } else {
 if (!relative.path) {
 target.path = base.path;
 }
 if (relative.query !== undefined) {
 target.query =
 relative.query;
 } else {
 target.query =
 base.query;
 }
 }
 }
 }
 }
 }
}

```



```
ATEXT$$ + \" + \") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ + VCHAR$$);\nconst QCONTENT$ = subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp(\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ + QCONTENT$ + \"*\" + \"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\");\nconst RFC_6068_DTEXT_NO_OBS$$ = \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\x21-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\x5A\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\x5E-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\x7E]\"; // %d33-90 / %d94-126\nconst SOME_DELIMS$$ = \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\%\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\&*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\+\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\,\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\;\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\@\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\";\nconst QCHAR$ = subexp(UNRESERVED$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst DOMAIN$ = subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\");\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + \"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\,\" + ADDR_SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\&\" + HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new RegExp(\"^mailto\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\:\" + TO$ + \"?\" + HFIELDS$ + \"?$\");\nconst UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"^[^]\", ATEXT$$, \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\.]\", \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\", VCHAR$$), \"g\");\nconst NOT_DOMAIN = new RegExp(merge(\"^[^]\", ATEXT$$, \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\.]\", \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\", DTEXT_NO_OBS$$, \"[\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]\"), \"g\");\nconst NOT_HFNAME = new RegExp(merge(\"^[^]\", UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\nfunction decodeUnreserved(str:string):string {\n const decStr = pctDecChars(str);\n return (!decStr.match(UNRESERVED) ? str : decStr);\n}\nconst handler:URISchemeHandler<MailtoComponents> = {\n scheme: \"mailto\", \n parse: function (components:URISchemeHandler<MailtoComponents>:MailtoComponents, options:URIOptions):MailtoComponents {\n const mailtoComponents = components as MailtoComponents;\n mailtoComponents.to = mailtoComponents.to || (mailtoComponents.path ? mailtoComponents.path.split(\"|\") : []);\n mailtoComponents.path = undefined;\n mailtoComponents.query = {\n let unknownHeaders = false;\n const headers:MailtoHeaders = {};\n const hfields = mailtoComponents.query.split(\"&\");\n for (let x = 0, xl = hfields.length; x < xl; ++x) {\n const hfield = hfields[x].split(\"=\");\n switch (hfield[0]) {\n case \"to\":\n const toAddrs = hfield[1].split(\"|\");\n for (let x = 0, xl = toAddrs.length; x < xl; ++x) {\n toAddrs.push(toAddrs[x]);\n }\n break;\n case \"subject\":\n mailtoComponents.subject = unescapeComponent(hfield[1], options);\n break;\n case \"body\":\n mailtoComponents.body = unescapeComponent(hfield[1], options);\n break;\n default:\n unknownHeaders = true;\n headers[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);\n break;\n }\n }\n mailtoComponents.headers = headers;\n mailtoComponents.query = undefined;\n for (let x = 0, xl = to.length; x < xl; ++x) {\n const addr = to[x].split(\"@\");\n taddr[0] = unescapeComponent(addr[0]);\n if (!options.unicodeSupport) {\n //convert Unicode IDN -> ASCII IDN\n taddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n } catch (e) {\n mailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;\n }\n else {\n taddr[1] = unescapeComponent(addr[1], options).toLowerCase();\n }\n tto[x] = addr.join(\"@\");\n }\n return mailtoComponents;\n }, \n serialize: function (mailtoComponents:MailtoComponents, options:URIOptions):URISchemeHandler<MailtoComponents>:MailtoComponents {\n const components = mailtoComponents as URISchemeHandler<MailtoComponents>:MailtoComponents;\n const to = toArray(mailtoComponents.to);\n const (to) {\n for (let x = 0, xl = to.length; x < xl; ++x) {\n const toAddr = String(to[x]);\n const atIdx = toAddr.lastIndexOf(\"@\");\n const localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n const domain = toAddr.slice(atIdx + 1);\n //convert IDN via punycode\n const domain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n }\n };\n }\n}
```



```

urnComponents as URISchemeHandler;
const nss = urnComponents.nss;
const uriComponents = {
 path: ` ${nid} ||
options.nid } : { nss };
return uriComponents;
},
export default handler;
import {
 URISchemeHandler, URISchemeHandler, URISchemeHandler } from ` ../uri `;
import { URNComponents } from
` ../urn `;
import { SCHEMES } from ` ../uri `;
export interface UIDComponents extends URNComponents
{
 uuid?: string;
 const UUID = /^[0-9A-Fa-f]{8}(?:\-[0-9A-Fa-f]{4}){3}\-[0-9A-Fa-f]{12}$/;
 const
 UUID_PARSE = /^[0-9A-Fa-f\-\]{36}/;
 RFC 4122;
 handler: URISchemeHandler < UIDComponents,
 URISchemeHandler, URISchemeHandler > = {
 scheme: ` urn:uuid `,
 parse: function
 (urnComponents: URNComponents, options: URISchemeHandler): UIDComponents {
 const uuidComponents =
 urnComponents as UIDComponents;
 uuidComponents.uuid = uuidComponents.nss;
 uuidComponents.nss =
 undefined;
 if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID)))
 {
 uuidComponents.error = uuidComponents.error || ` UUID is not valid. `;
 }
 return
 uuidComponents;
 },
 serialize: function (uuidComponents: UIDComponents,
 options: URISchemeHandler): URNComponents {
 const urnComponents = uuidComponents as
 URNComponents;
 normalize UUID;
 urnComponents.nss = (uuidComponents.uuid ||
 ` `).toLowerCase();
 return urnComponents;
 },
 handler: ` import { SCHEMES } from
 ` ../uri `;
 http from ` ../schemes/http `;
 SCHEMES[http.scheme] = http;
 https from
 ` ../schemes/https `;
 SCHEMES[https.scheme] = https;
 mailto from
 ` ../schemes/mailto `;
 SCHEMES[mailto.scheme] = mailto;
 urn from
 ` ../schemes/urn `;
 SCHEMES[urn.scheme] = urn;
 uuid from ` ../schemes/urn-
 uuid `;
 SCHEMES[uuid.scheme] = uuid;
 export * from ` ../uri `;
 }
}

```

Found in path(s):

```

* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-
4f6f600/dist/es5/uri.all.min.js.map

```

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

```

{
 "version": 3,
 "file": "uri.all.js",
 "sources": [
 ` ../src/index.ts `,
 ` ../src/schemes/urn-
 uuid.ts `,
 ` ../src/schemes/urn.ts `,
 ` ../src/schemes/mailto.ts `,
 ` ../src/schemes/https.ts `,
 ` ../src/schemes/http.ts `,
 ` ../
 /src/uri.ts `,
 ` ../node_modules/punycode/punycode.es6.js `,
 ` ../src/regexp-iri.ts `,
 ` ../src/regexp-
 uri.ts `,
 ` ../src/util.ts `
],
 "sourcesContent": [
 ` import { SCHEMES } from ` ../uri `;
 import http from
 ` ../schemes/http `;
 SCHEMES[http.scheme] = http;
 https from
 ` ../schemes/https `;
 SCHEMES[https.scheme] = https;
 mailto from
 ` ../schemes/mailto `;
 SCHEMES[mailto.scheme] = mailto;
 urn from
 ` ../schemes/urn `;
 SCHEMES[urn.scheme] = urn;
 import uuid from ` ../schemes/urn-
 uuid `;
 SCHEMES[uuid.scheme] = uuid;
 export * from ` ../uri `;
],
 "import { URISchemeHandler,
 URISchemeHandler, URISchemeHandler } from ` ../uri `;
 import { URNComponents } from ` ../urn `;
 import { SCHEMES
 } from ` ../uri `;
 export interface UIDComponents extends URNComponents {
 uuid?: string;
 const
 UUID = /^[0-9A-Fa-f]{8}(?:\-[0-9A-Fa-f]{4}){3}\-[0-9A-Fa-f]{12}$/;
 const
 UUID_PARSE = /^[0-9A-Fa-f\-\]{36}/;
 RFC 4122;
 handler: URISchemeHandler < UIDComponents, URISchemeHandler, URISchemeHandler > =
 {
 scheme: ` urn:uuid `,
 parse: function (urnComponents: URNComponents,
 options: URISchemeHandler): UIDComponents {
 const uuidComponents = urnComponents as
 UIDComponents;
 uuidComponents.uuid = uuidComponents.nss;
 uuidComponents.nss =
 undefined;
 if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID)))
 {
 uuidComponents.error = uuidComponents.error || ` UUID is not valid. `;
 }
 return
 uuidComponents;
 },
 serialize: function (uuidComponents: UIDComponents,
 options: URISchemeHandler): URNComponents {
 const urnComponents = uuidComponents as
 URNComponents;
 normalize UUID;
 urnComponents.nss = (uuidComponents.uuid ||
 ` `).toLowerCase();
 return urnComponents;
 },
 handler: ` import { URISchemeHandler,
 URISchemeHandler, URISchemeHandler } from ` ../uri `;
 http from ` ../schemes/http `;
 SCHEMES[http.scheme] = http;
 https from
 ` ../schemes/https `;
 SCHEMES[https.scheme] = https;
 mailto from
 ` ../schemes/mailto `;
 SCHEMES[mailto.scheme] = mailto;
 urn from
 ` ../schemes/urn `;
 SCHEMES[urn.scheme] = urn;
 uuid from ` ../schemes/urn-
 uuid `;
 SCHEMES[uuid.scheme] = uuid;
 export * from ` ../uri `;
 }
 }
}

```









```

URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,
options:Options):Components;\n\tserialize(components:Components,
options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boole
an;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO :
RegExp,\n\tNOT_HOST : RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME :
RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED :
RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS :
RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES: {[scheme:string]:URISchemeHandler} =
{};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\tif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c
< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
str.length;\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\t\tif (c < 128) {\n\t\t\tnewStr +=
String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst
c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t\ti
+= 9;\n\t\t\t}\n\t\t\telse {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t\ti += 6;\n\t\t\t}\n\t\t\telse if (c >= 224) {\n\t\t\t\tif ((il - i) >= 9)
{\n\t\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\t\tnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\t\ti += 12;\n\t\t\t\t}\n\t\t\t\telse {\n\t\t\t\t\tnewStr +=
str.substr(i, 9);\n\t\t\t\t\ti += 9;\n\t\t\t\t}\n\t\t\t}\n\t\t\telse {\n\t\t\t\tnewStr += str.substr(i, 3);\n\t\t\t\ti +=
3;\n\t\t\t}\n\t\t}\n\t}\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents,
protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr =
pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\tif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"%\");\n\tif (components userinfo !==
undefined) components userinfo = String(components userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n}\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^*(.*)/, \"%1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t}\n\t}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\tif (address) {\n\t\tconst [last,
first] = address.toLowerCase().split(\"::\").reverse();\n\t\tconst firstFields = first ?
first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields =

```

```

last.split("\\.").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";\n\t\t}\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;;\n\t\t\t\t} else
{\n\t\t\t\t\tacc.push({ index, length : 1 });;\n\t\t\t\t}\n\t\t\t\treturn acc;\n\t\t\t}, []);\n\t\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\tlet newHost:string;\n\t\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index);;\n\t\t\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\t\tnewHost = newFirst.join(\":\") + \":\" +
newLast.join(\":");;\n\t\t\t} else {\n\t\t\t\tnewHost = fields.join(\":");;\n\t\t\t}\n\t\t\tif (zone) {\n\t\t\t\tnewHost += \"%\" +
zone;\n\t\t\t}\n\t\t\treturn newHost;\n\t\t} else {\n\t\t\treturn host;\n\t\t}\n\t}\n\tconst URI_PARSE =
/^(?:([^\v?#]+):)?(?:\\v\\v(?:([^\v?#@]*))@)?(?:\\v\\v(?:[^\v?#\\v]+)\\v|\\v(?:[^\v?#:]*)|(?:::(\\d*))?)?(?:[^\v?#]*(?:\\v(?:[^\v?#]*))?)?:#(?:
\\.\\|\\|r*))?/i;\n\tconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\\\").match(/(){}0)/)[1] ===
undefined;\n\texport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\t\tconst
components:URIComponents = {};\n\t\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\t\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\") + \"//\" + uriString;\n\t\tconst matches = uriString.match(URI_PARSE);\n\t\tif (matches) {\n\t\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t\tstore each component\n\t\t\t\tcomponents.scheme =
matches[1];\n\t\t\t\tcomponents.userInfo = matches[3];\n\t\t\t\tcomponents.host = matches[4];\n\t\t\t\tcomponents.port =
parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\t\tcomponents.query =
matches[7];\n\t\t\t\tcomponents.fragment = matches[8];\n\t\t\t\t//fix port number\n\t\t\t\tif (isNaN(components.port))
{\n\t\t\t\t\tcomponents.port = matches[5];\n\t\t\t\t}\n\t\t\t\t} else { //IE FIX for improper RegExp matching\n\t\t\t\tstore
each component\n\t\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\t\tcomponents.userInfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -
1 ? matches[4] : undefined);\n\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6]
|| \"\";\n\t\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\t\t\t\t//fix
port number\n\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\tcomponents.port =
(uriString.match(/\\v\\v(?:\\.\\|\\|r)*\\:(?:\\v\\v?|\\|#)$/) ? matches[4] : undefined);\n\t\t\t\t}\n\t\t\t\t}\n\t\t\t\tif (components.host)
{\n\t\t\t\t\tnormalize IP hosts\n\t\t\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t\t\t}\n\t\t\t\t//determine reference type\n\t\t\t\tif (components.scheme === undefined &&
components.userInfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\t\t\tcomponents.reference = \"same-document\";\n\t\t\t\t}\n\t\t\t\telse if (components.scheme === undefined) {\n\t\t\t\t\tcomponents.reference = \"relative\";\n\t\t\t\t}\n\t\t\t\telse if
(components.fragment === undefined) {\n\t\t\t\t\tcomponents.reference = \"absolute\";\n\t\t\t\t}\n\t\t\t\telse
{\n\t\t\t\t\tcomponents.reference = \"uri\";\n\t\t\t\t}\n\t\t\t\t//check for reference errors\n\t\t\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t\t\t}\n\t\t\t\t//find scheme
handler\n\t\t\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\\\").toLowerCase()];\n\t\t\t\t//check if scheme can't handle IRIs\n\t\t\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t\t\t//if host component is a domain name\n\t\t\t\t\tif (components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t\t\tconvert
Unicode IDN -> ASCII IDN\n\t\t\t\t\t\ttry {\n\t\t\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars)).toLowerCase();\n\t\t\t\t\t\t}\n\t\t\t\t\t\tcatch (e) {\n\t\t\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via

```





```

function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
callback function.\n *\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--> 0) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n**\n * A simple `Array#map`-like wrapper to
work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain
name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n *
@return {Array} A new string of characters returned by the callback\n * function.\n *\nfunction
mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email
addresses, only the domain name should be punycode'd. Leave\n\t\t// the local part (i.e. everything up to `@`)
intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See
#17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded =
map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n**\n * Creates an array containing the numeric code
points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will
convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code
point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see
<https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n *
@param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n
*\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile
(counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=
0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =
string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low
surrogate.\n\t\t\t\toutput.push(((value & 0x3FFF) << 10) + (extra & 0x3FFF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an
unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a
surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n**\n * Creates a string based on an array of numeric
code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param
{Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n
*\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n**\n * Converts a basic code point into a
digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code
point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers)
in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n *\nconst basicToDigit =
function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 <
0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint -
0x61;\n\t}\n\treturn base;\n}\n\n**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n
* @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The
basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n
* `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior
is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n *\nconst digitToBasic = function(digit,
flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) -
((flag != 0) << 5);\n}\n\n**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n *
https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n *\nconst adapt = function(delta, numPoints,
firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta /
numPoints);\n\tfor (/^ no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta
/ baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n}\n\n**\n * Converts a
Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n *
@param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of
Unicode symbols.\n *\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst
inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\t// Handle the basic code

```

```

points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then
copy the first basic code points to the output.
let basic = input.lastIndexOf(delimiter);
if (basic < 0)
 basic = 0;
for (let j = 0; j < basic; ++j)
 if (input.charCodeAt(j) >= 0x80)
 throw 'not-basic';
// Main decoding loop:
start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
for (let index = basic > 0 ? basic + 1 : 0; index < input.length; /* no final expression */)
 `index` is the index of the next character to be consumed.
 Decode a generalized variable-length integer into `delta` which gets added to `i`.
 The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.
 for (let oldi = i; for (let w = 1, k = base; /* no condition */; k += base)
 if (index >= input.length)
 throw 'invalid-input';
 const digit = basicToDigit(input.charCodeAt(index++));
 if (digit >= base || digit > floor((maxInt - i) / w))
 throw 'overflow';
 i += digit * w;
 const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
 if (digit < t)
 break;
 const baseMinusT = base - t;
 if (w > floor(maxInt / baseMinusT))
 throw 'overflow';
 tw *= baseMinusT;
 const out = output.length + 1;
 bias = adapt(i - oldi, out, oldi == 0);
 // `i` was supposed to wrap around from `out` to `0`, incrementing `n` each time, so we'll fix that now:
 if (floor(i / out) > maxInt - n)
 throw 'overflow';
 tn += floor(i / out);
 i %= out;
 // Insert `n` at position `i` of the output.
 output.splice(i++, 0, n);
 }
 return String.fromCodePoint(...output);
}
// Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.
@memberOf punycode
@param {String} input The string of Unicode symbols.
@returns {String} The resulting Punycode string of ASCII-only symbols.
^
const encode = function(input) {
 const output = [];
 // Convert the input in UCS-2 to an array of Unicode code points.
 input = ucs2decode(input);
 // Cache the length.
 let inputLength = input.length;
 // Initialize the state.
 let n = initialN;
 let delta = 0;
 let bias = initialBias;
 // Handle the basic code points.
 for (const currentValue of input)
 if (currentValue < 0x80)
 output.push(stringFromCharCode(currentValue));
 let basicLength = output.length;
 let handledCPCCount = basicLength;
 // `handledCPCCount` is the number of code points that have been handled;
 // `basicLength` is the number of basic code points.
 // Finish the basic string with a delimiter unless it's empty.
 if (basicLength)
 output.push(delimiter);
 // Main encoding loop:
 while (handledCPCCount < inputLength)
 // All non-basic code points < n have been handled already. Find the next larger one.
 let m = maxInt;
 for (const currentValue of input)
 if (currentValue >= n && currentValue < m)
 tm = currentValue;
 // Increase `delta` enough to advance the decoder's <n,i> state to <m,0>, but guard against overflow.
 const handledCPCCountPlusOne = handledCPCCount + 1;
 if (m - n > floor((maxInt - delta) / handledCPCCountPlusOne))
 throw 'overflow';
 delta += (m - n) * handledCPCCountPlusOne;
 tn = m;
 for (const currentValue of input)
 if (currentValue < n && ++delta > maxInt)
 throw 'overflow';
 if (currentValue == n)
 // Represent delta as a generalized variable-length integer.
 let q = delta;
 for (let k = base; /* no condition */; k += base)
 const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
 if (q < t)
 break;
 const qMinusT = q - t;
 const baseMinusT = base - t;
 output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
 tq = floor(qMinusT / baseMinusT);
 output.push(stringFromCharCode(digitToBasic(q, 0)));
 bias = adapt(delta, handledCPCCountPlusOne, handledCPCCount == basicLength);
 delta = 0;
 ++handledCPCCount;
 ++delta;
 ++n;
 }
 return output.join('');
}
// Converts a Punycode string representing a domain name or an email address to Unicode. Only the Punycode parts of the input will be converted, i.e. it doesn't matter if you call it on a string that has already been converted to Unicode.
@memberOf punycode
@param {String} input The Punycode domain name or email address to convert to Unicode.
@returns {String} The Unicode representation of the given Punycode string.
^
const toUnicode = function(input) {
 return mapDomain(input, function(string) {
 return

```



```

\:") h16] \:"" h16\n\tIPV6ADDRESS$ = subexp(subexp(subexp(H16$ + "\\\\:)" + "{0,6}" + H16$)
+ "\\\\:)"
), /* (h16 \:") h16] \:"\n\tIPV6ADDRESS$ =
subexp(IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join("\|"),\n\tZONEID$ =
subexp(subexp(UNRESERVED$ + "|" + PCT_ENCODED$) + "+"), //RFC 6874\n\tIPV6ADDRZ$ =
subexp(IPV6ADDRESS$ + "\\\%25" + ZONEID$), //RFC 6874\n\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS$ + subexp("\\\%25\\%{2}") + HEXDIG$ + "\{2}")) + ZONEID$), //RFC 6874, with
relaxed parsing rules\n\tIPV6FUTURE$ = subexp("[vV]" + HEXDIG$ + "+\\." + merge(UNRESERVED$,
SUB_DELIM$$, "\\\:|]")) + "+"),\n\tIP_LITERAL$ = subexp("\|[" + subexp(IPV6ADDRZ_RELAXED$ +
"\|" + IPV6ADDRESS$ + "|" + IPV6FUTURE$) + "\\\|]"), //RFC 6874\n\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$, SUB_DELIM$$)) + "*"),\n\tHOST$ =
subexp(IP_LITERAL$ + "|" + IPV4ADDRESS$ + "(?!)" + REG_NAME$ + ")" + "|" +
REG_NAME$),\n\tPORT$ = subexp(DIGIT$ + "*"),\n\tAUTHORITY$ = subexp(subexp(USERINFO$ +
"@") + "?" + HOST$ + subexp("\\\:|" + PORT$) + "?"),\n\tPCHAR$ = subexp(PCT_ENCODED$ + "|" +
merge(UNRESERVED$, SUB_DELIM$$, "\\\:|@]")), \n\tSEGMENT$ = subexp(PCHAR$ +
"*"),\n\tSEGMENT_NZ$ = subexp(PCHAR$ + "+"),\n\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$, SUB_DELIM$$, "\\\:|@]")) +
"+"),\n\tPATH_ABEMPTY$ = subexp(subexp("\|/" + SEGMENT$) + "*"),\n\tPATH_ABSOLUTE$ =
subexp("\|/" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + "?"), //simplified\n\tPATH_NOSCHEMES
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\tPATH_EMPTY$ = "(?!)" + PCHAR$ +
")",\n\tPATH$ = subexp(PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ +
"|)" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$),\n\tQUERY$ = subexp(subexp(PCHAR$ + "|" +
merge("\|\\|\\|?]", IPRIVATE$)) + "*"),\n\tFRAGMENT$ = subexp(subexp(PCHAR$ + "\|\\|\\|\\|?]" +
"*"),\n\tHIER_PART$ = subexp(subexp("\|\\|\\|/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +
PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$),\n\tURI$ = subexp(SCHEMES$ +
"\\\:|" + HIER_PART$ + subexp("\|\\|?" + QUERY$) + "?" + subexp("\|\\|#" + FRAGMENT$) +
"?"),\n\tRELATIVE_PART$ = subexp(subexp("\|\\|\\|/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$),\n\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp("\|\\|?" + QUERY$) + "?" + subexp("\|\\|#" + FRAGMENT$) +
"?"),\n\tURI_REFERENCE$ = subexp(URI$ + "|" + RELATIVE$),\n\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "\\\:|" + HIER_PART$ + subexp("\|\\|?" + QUERY$) + "?"),\n\tGENERIC_REF$ =
"^(" + SCHEMES$ + "\\\:|" + subexp(subexp("\|\\|\\|/" + subexp("(" + USERINFO$ + ")@") + "?(" +
HOST$ + ")") + subexp("\\\:|" + PORT$ + ")") + "?") + "?" + PATH_ABEMPTY$ + "|" +
PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("\|\\|?" +
QUERY$ + ")") + "?" + subexp("\|\\|#(" + FRAGMENT$ + ")") + "?$", \n\tRELATIVE_REF$ = "^{0}" +
subexp(subexp("\|\\|\\|/" + subexp("(" + USERINFO$ + ")@") + "?(" + HOST$ + ")") + subexp("\\\:|" +
PORT$ + ")") + "?") + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_NOSCHEMES$ + "|" + PATH_EMPTY$ + ")") + subexp("\|\\|?" + QUERY$ + ")") + "?" +
subexp("\|\\|#(" + FRAGMENT$ + ")") + "?$", \n\tABSOLUTE_REF$ = "^(" + SCHEMES$ + "\\\:|" +
subexp(subexp("\|\\|\\|/" + subexp("(" + USERINFO$ + ")@") + "?(" + HOST$ + ")") + subexp("\\\:|" +
PORT$ + ")") + "?") + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("\|\\|?" + QUERY$ + ")") +
"?$", \n\tSAMEDOC_REF$ = "^" + subexp("\|\\|#(" + FRAGMENT$ + ")") +
"?$", \n\tAUTHORITY_REF$ = "^" + subexp("(" + USERINFO$ + ")@") + "?(" + HOST$ + ")") +
subexp("\\\:|" + PORT$ + ")") + "?$" \n\t; \n\treturn { \n\t\tNOT_SCHEME : new RegExp(merge("[^]",
ALPHA$, DIGIT$, "\\\+\\-\\.J"), "g"), \n\t\tNOT_USERINFO : new RegExp(merge("[^\\%\\:|]",
UNRESERVED$, SUB_DELIM$$, "g"), \n\t\tNOT_HOST : new RegExp(merge("[^\\%\\|\\|\\|\\|\\|\\|\\|]",

```



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UNRESERVED$$, SUB_DELIMS$$), \g),\n\tNOT_PATH : new RegExp(merge(["^\\\\%\\\\\\\\:\\\\@|",
UNRESERVED$$, SUB_DELIMS$$), \g),\n\tNOT_PATH_NOSHEME : new
RegExp(merge(["^\\\\%\\\\\\\\:\\\\@|", UNRESERVED$$, SUB_DELIMS$$), \g),\n\tNOT_QUERY : new
RegExp(merge(["^\\\\%|", UNRESERVED$$, SUB_DELIMS$$, "[\\\\:\\\\@\\\\\\\\\\\\?]", IPPRIVATE$$),
\g),\n\tNOT_FRAGMENT : new RegExp(merge(["^\\\\%|", UNRESERVED$$, SUB_DELIMS$$,
"[\\\\:\\\\@\\\\\\\\\\\\?|)", \g),\n\tESCAPE : new RegExp(merge(["^|", UNRESERVED$$, SUB_DELIMS$$),
\g),\n\tUNRESERVED : new RegExp(UNRESERVED$$, \g),\n\tOTHER_CHARS : new
RegExp(merge(["^\\\\%|", UNRESERVED$$, RESERVED$$), \g),\n\tPCT_ENCODED : new
RegExp(PCT_ENCODED$, \g),\n\tIPV4ADDRESS : new RegExp("^(+ IPV4ADDRESS$ +
\)$)",\n\tIPV6ADDRESS : new RegExp("^(\\\\[?(+ IPV6ADDRESS$ + \))" +
subexp(subexp("\\\\\\%25\\\\%(!" + HEXDIG$$ + "{2})") + "(" + ZONEID$ + \)") + "?\\\\[?}$") //RFC 6874,
with relaxed parsing rules\n\t;\n}\n\nexport default buildExps(false);\n", "export function
merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl =
sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] =
sets[xl].slice(1);\n\t\treturn sets.join("");\n\t} else {\n\t\treturn sets[0];\n\t}\n}\n\nexport function
subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o ===
undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\"
\").pop().split(\"|\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn
str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any> {\n\treturn obj !== undefined && obj !==
null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] :
Array.prototype.slice.call(obj))) : [];\n}\n\nexport function assign(target: object, source: any): any {\n\tconst obj =
target as any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn
obj;\n}
,"names":["SCHEMES","uuid","scheme","urn","mailto","https","http","urnComponents","nss","uidComp
onents","toLowerCase","options","error","tolerant","match","UUID","undefined","handler","uriComponents","path",
,"nid","schemeHandler","serialize","urnScheme","parse","matches","components","URN_PARSE","query","fields",
,"join","length","push","name","replace","PCT_ENCODED","decodeUnreserved","toUpperCase","NOT_HFNAME",
,"pctEncChar","headers","NOT_HFVALUE","O","mailtoComponents","body","subject","to","x","localPart","dom
ain","iri","e","punycode","toASCII","unescapeComponent","toUnicode","toAddr","slice","atIdx","NOT_LOCAL_P
ART","lastIndexOf","String","xl","toArray","addr","unicodeSupport","split","unknownHeaders","hfield","toAdrs",
,"hfields","decStr","UNRESERVED","str","pctDecChars","RegExp","merge","UNRESERVED$$","SOME_DELIM
$$$","ATEXT$$","VCHAR$$","PCT_ENCODED$","QTEXT$$","subexp","HEXDIG$$","isIRI","domainHost","
port","host","toString","URI_PROTOCOL","IRI_PROTOCOL","ESCAPE","escapeComponent","uriA","uriB","typ
eOf","equal","uri","normalize","resolveComponents","baseURI","schemelessOptions","relativeURI","assign","resol
ve","target","fragment","relative","base","userinfo","removeDotSegments","charAt","skipNormalization","uriToken
s","s","authority","absolutePath","reference","_recomposeAuthority","protocol","IPV6ADDRESS","test","output","
Error","input","im","RDS5","pop","RDS3","RDS2","RDS1","$1","$2","_normalizeIPv6","_normalizeIPv4","_","uri
String","isNaN","indexOf","parseInt","NO_MATCH_IS_UNDEFINED","URI_PARSE","newHost","zone","newFi
rst","newLast","longestZeroFields","index","b","a","allZeroFields","sort","acc","lastLongest","field","reduce","field
Count","isLastFieldIPv4Address","firstFields","lastFields","lastFieldsStart","Array","IPV4ADDRESS","last","map",
,"_stripLeadingZeros","first","address","reverse","NOT_FRAGMENT","NOT_QUERY","NOT_PATH","NOT_PA
TH_NOSHEME","NOT_HOST","NOT_USERINFO","NOT_SCHEME","_normalizeComponentEncoding","new
Str","substr","i","fromCharCode","c","c2","c3","il","chr","CharCodeAt","encode","decode","ucs2encode","ucs2deco
de","regexNonASCII","string","mapDomain","regexPunycode","n","delta","handledCPCount","adapt","handledCP
CountPlusOne","basicLength","stringFromCharCode","digitToBasic","q","floor","qMinusT","baseMinusT","t","k",
,"bias","tMin","tMax","currentValue","maxInt","m","inputLength","delimiter","initialBias","initialN","fromCodePoi
nt","splice","out","oldi","w","digit","basicToDigit","basic","j","baseMinusTMin","skew","numPoints","firstTime",
"damp","flag","codePoint","array","value","extra","counter","result","encoded","labels","fn","regexSeparators","part
s","RangeError","errors","type","Math","buildExps","IPV6ADDRESS$","ZONEID$","IPV4ADDRESS$","RESER

```

VED\$\$", "SUB\_DELIMSS\$\$", "IPRIVATE\$\$", "ALPHA\$\$", "DIGIT\$\$", "AUTHORITY\_REF\$", "USERINFO\$", "HOST\$", "PORT\$", "SAMEDOC\_REF\$", "FRAGMENTS\$", "ABSOLUTE\_REF\$", "SCHEMES\$", "PATH\_ABEMPTY\$", "PATH\_ABSOLUTE\$", "PATH\_ROOTLESS\$", "PATH\_EMPTY\$", "QUERY\$", "RELATIVE\_REF\$", "PATH\_NO\_SCHEME\$", "GENERIC\_REF\$", "ABSOLUTE\_URI\$", "HIER\_PARTS\$", "URI\_REFERENCES\$", "URI\$", "RELATIVES\$", "RELATIVE\_PART\$", "AUTHORITY\$", "PCHAR\$", "PATH\$", "SEGMENT\_NZ\$", "SEGMENT\_NZ\_NC\$", "SEGMENTS\$", "IP\_LITERAL\$", "REG\_NAMES\$", "IPV6ADDRZ\_RELAXED\$", "IPVFUTURE\$", "IPV6ADDRESS1\$", "IPV6ADDRESS2\$", "IPV6ADDRESS3\$", "IPV6ADDRESS4\$", "IPV6ADDRESS5\$", "IPV6ADDRESS6\$", "IPV6ADDRESS7\$", "IPV6ADDRESS8\$", "IPV6ADDRESS9\$", "H16\$", "LS32\$", "DEC\_OCTET\_RELAXED\$", "DEC\_OCTETS\$", "UCSCHAR\$\$", "GEN\_DELIMSS\$\$", "SP\$\$", "DQUOTE\$\$", "CR\$", "obj", "key", "source", "setInterval", "call", "prototype", "o", "Object", "shift", "sets", "]", "mappings": ";;;;;;;;;AUA, SAAA4E, KAAA, GAAA; sCAAYBkP, IAAB; YAAA; ; QACKA, KAAK/R, MAAL, GAAC, CAAIB, EAAqB; aACf, CAAL, IAAU+R, KAAK, CAAL, EAAQrQ, KAAR, CAAC, CAAd, EAAiB, CAAC, CAAIB, CAAV; YACMK, KAAKqG, KAAK/R, MAAL, GAAC, CAABZ; aACK, IAAL, IAAI, CAAB, EAAgBA, IAAIe, EAApB, EAAwB, EAAef, CAA1B, EAA6B; iBACvBA, CAAL, IAAU+Q, KAAK/Q, CAAL, EAAQU, KAAR, CAAC, CAAd, EAAiB, CAAC, CAAIB, CAAV; ; aAEIK, EAAL, IAAWgQ, KAAKhQ, EAAL, EAASL, KAAT, CAAC, CAACf, CAAX; eACOqQ, KAAKhS, IAAL, CAAU, EAAV, CAAP; KAPD, MAQO; eACCgS, KAAK, CAAL, CAAP; ; AAIF, AAAA, SAAA3O, MAAA, CAAuBV, GAAvB, EAAA; WACQ, QAAQA, GAAR, GAAC, GAARb; ; AAGD, AAAA, SAAAUb, MAAA, CAAuB2N, CAAvB, EAAA; WACQA, MAAM3S, SAAN, GAAKb, WAAIB, GAAiC2S, MAAM, IAAN, GAAa, MAAb, GAAaBC, OAAOF, SAAP, CAAiBjO, QAAjB, CAA0BgO, IAA1B, CAA+BE, CAA/B, EAAKcZp, KAAIC, CAAwC, GAAxC, EAA6C8D, GAA7C, GAAMd9D, KAAAnD, CAAyD, GAAzD, EAA8D2P, KAA9D, GAAaEnT, WAAAtE, EAA9D; ; AAGD, AAAA, SAAA2B, WAAA, CAA4BoC, GAA5B, EAAA; WACQA, IAAlpC, WAAJ, EAAP; ; AAGD, AAAA, SAAA0B, OAAA, CAAwBsP, GAAxB, EAAA; WACQA, QAAQrS, SAAR, IAAlqBqS, QAAQ, IAA7B, GAAqCA, eAAenJ, KAAf, GAAuBmJ, GAAvB, GAA8B, OAAOA, IAAItR, MAAX, KAAaB, QAAtB, IAAKCsR, IAAInP, KAAAtC, IAA+CmP, IAAIG, WAAAnD, IAAkEH, IAAII, IAAtE, GAA6E, CAACJ, GAAD, CAA7E, GAAqFnJ, MAAMwJ, SAAN, CAAgBjQ, KAAhB, CAAaBqG, IAAAtB, CAA2BJ, GAA3B, CAAxJ, GAA4L, EAAmM; ; AAID, AAAA, SAAA7M, MAAA, CAAuBE, MAAvB, EAAuC6M, MAAvC, EAAA; QACOF, MAAM3M, MAAZ; QACI6M, MAAJ, EAAY; aACN, IAAMD, GAAX, IAAkBC, MAAlB, EAA0B; gBACrBD, GAAJ, IAAWC, OAAOD, GAAP, CAAX; ; WAGKD, GAAP; ; ADnCD, SAAA3D, SAAA, CAA0BrK, KAA1B, EAAA; QAEE4K, UAAU, UADX; QAECmD, MAAM, SAFF; QAGCID, UAAU, OAHX; QAICiD, WAAW, SAJZ; QAKC/N, WAAWR, MAAMsL, OAAAN, EAAe, UAAf, CALZ; ; WAMQ, SANR; QAOCgD, OAAO, SAPR; QAQCjO, eAAeE, OAAOA, OAAO, YAAYC, QAAZ, GAAuB, GAAvB, GAA6BA, QAA7B, GAAwCA, QAAxC, GAAMd, GAAnD, GAAyDA, QAAzD, GAAoEA, QAA3E, IAAuF, GAAvF, GAA6FD, OAAO, gBAAgBC, QAAhB, GAA2B, GAA3B, GAAiCA, QAAjC, GAA4CA, QAAAnD, CAA7F, GAA4J, GAA5J, GAAkKD, OAAO, MAAMC, QAAN, GAAiBA, QAAxB, CAAzK, CARhB; ; mBASgB, yBATHb; QAUC2K, eAAe, qCAVhB; QAWCD, aAAaL, MAAMqO, YAAN, EAAoBID, YAApB, CAXd; QAYCiD, YAAY3N, QAAQ, 6EAAAR, GAAwF, IAZrG; ; iBAacA, QAAQ, mBAAR, GAA8B, IAb5C; ; mBAcgbT, MAAMqL, OAAAN, EAAeC, OAAf, EAABwB, gBAAB, EAA0C8C, SAA1C, CAadhB; QAeCtC, UAAUvL, OAAO8K, UAAUrL, MAAMqL, OAAAN, EAAeC, OAAf, EAABwB, aAAxB, CAAV, GAAMd, GAA1D, CAfX; QAgBCE, YAAYjL, OAAOA, OAAOF, eAAe, GAAf, GAAqBLL, MAAMC, YAAN, EAAoBkL, YAApB, EAAC, OAAIC, CAA5B, IAA0E, GAAjF, CAhBb; QAiBCgD, aAAa5N, OAAOA, OAAO, SAAP, IAAoB, GAAPB, GAA0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K, OAAO, MAAM+K, OAAAN, GAAgBA, OAAvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, UAAU+K, OAAjB, CAARg, GAAiI, GAAjI, GAAuIA, OAA9I, CAjBd; QAKBC4C, qBAAqB3N, OAAOA, OAAO, SAAP, IAAoB, GAAPB, GAA0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K, OAAO, MAAM+K, OAAAN, GAAgBA, OAAvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, YAAY+K, OAAAN, CAARg, GAAMi, OAAAnI, GAA6IA, OAApJ, CAAlBtB; ; mBAmbgB/K, OAAO2N, qBAAqB, KAARb, GAA6BA, kBAA7B, GAAkD, KAAID, GAA0DA, kBAA1D, GAA+A+E, KAA/E, GAAuFA, kBAA9F, CAnBhB; QAOBCF, OAAOzN, OAAOC, WAAW, OAAIB, CApBR; QAqBCyN, QAAlQ1N, OAAOA, OAAOyN, OAAO, KAAP, GAAeA, IAAAtB, IAA8B, GAA9B, GAAoC/C, YAAY3C, CArBT; QASBCsC, gBAAgBhN, OAAmEA, OAAOyN, OAAO, KAAAd, IAAuB, KAAvB, GAA+BC, KAAIG, CAtBjB; ; oBAuBiB1N, OAAwD, WAAWA, OAAOyN, OAAO, KAAAd, CAAX, GAAkC, KAAIC, GAA0CC, KAAIG, CAvBjB; ; oBAwBiB1N, OAAOA, OAAwCyN, IAAxC, IAAgD, SAAhD, GAA4DzN, OAAOyN, OAAO, KAAAd, CAA5D, GAAMf, KAAAnF, GAA2FC, K

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Ab;iBAEK,CAAL,IAAUZ,kBAaKbU,KAaK,CAAL,CAAIB,CAAV;gBAEI,CAACrD,QAAQsD,cAAb,EAA6B;;o  
BAExB;yBACE,CAAL,IAAUb,SAASC,OAAT,CAAiBC,kBAaKbU,KAaK,CAAL,CAAIB,EAA2BrD,OAA3B,E  
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Of,GAAGC,CAAH,CAAP,CAAf;oBACMW,QAAQF,OAAOI,WAAp,CAAmB,GAAnB,CAAd;oBACMZ,YAAaQ  
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AAiBC,IAArB,EAA2BJ,QAAQ,MAAR,IAAkBG,iBAAiBC,IAAnC;YAErBf,SAAS,EAAf;aACK,IAAMI,IAAX,I  
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F,CAA+FO,WAA/F,EAA4GF,UAA5G,CAHD;;;YAOEV,OAAOE,MAAX,EAAMb;uBACPH,KAAx,GAAMBC,  
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BmB,UAApB;YAEID,OAAJ,EAAa;gBACNvB,SAASS,QAAQT,MAAR,IAAkBK,cAAcL,MAAhC,IAA0C,KAAz  
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AvC,CAAhB;;YAGKO,gBAAgBX,aAAAtB;YACMC,MAAMD,cAAcC,GAA1B;sBACcW,IAAd,IAAwBC,OAAOT,  
QAAQS,GAAvC,UAA8CZ,GAA9C;eAEOU,aAAP;;CA1CF,CA8CA;;AD5DA,IAAMH,OAAO,0DAAAb;ACA,A  
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,IAAuB,EAAxB,EAA4BS,WAA5B,EAAPB;eACOH,aAAP;;CAnBF,CAuBA;;ADhCAP,QAAQM,QAACKJ,MAAb,  
IAAuBI,OAAvB;AAEA,AACAN,QAAQK,UAAMH,MAAd,IAAwBG,SAAXB;AAEA,AACAL,QAAQI,UAAOF,  
MAAf,IAAyBE,SAAZB;AAEA,AACAJ,QAAQG,UAAID,MAAZ,IAAsBC,SAAtB;AAEA,AACAH,QAAQC,UA  
AKC,MAAb,IAAuBD,SAAvB,CAEA;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

Found in path(s):

```
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map
```

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

```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');
```

```
export default {
 entry : "dist/esnext/index.js",
 format : "umd",
 moduleName : "URI",
 plugins: [
 resolve({
 module: true,
 jsnext: true,
 preferBuiltins: false
 })
]
}
```

```

babel({
 "presets": [
 ["latest", {
 "es2015": {
 "modules": false
 }
 }
]
},
 "plugins": ["external-helpers"],
 "externalHelpers": false
}
)
],
dest : "dist/es5/uri.all.js",
sourceMap: true,
banner: "/* @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License:
http://github.com/garycourt/uri-js */"
}

```

Found in path(s):

```
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
```

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```
/**
```

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*
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Found in path(s):

\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js  
\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

## 1.327 logex v1.1.10

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## 1.333 fromentries 1.3.2

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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



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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
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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
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Found in path(s):

\* /opt/cola/permits/1238609223\_1638977607.74/0/safe-json-stringify-1-2-0-tgz/package/README.md

# 1.346 @babel/helper-split-export-declaration

## 7.18.6

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## 1.349 @jridgewell/set-array 1.1.2

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THE BASIC LIBRARY FUNCTIONS  
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zlib

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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## 1.352 fresh 0.5.2

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## 1.354 x-text v0.3.5

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# 1.355 function-bind 1.1.1

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# 1.356 object.values 1.1.5

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## 1.362 cliui 6.0.0



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## 1.369 multidict 6.0.2

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# 1.370 googlecloudgo v0.100.2

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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.
}
resp, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

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.
 }
 resp, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

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
}
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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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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 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

 // 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()

```

```

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, "gopic", versionClient, "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
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()

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// 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 *compute.GetLicenseRequest, opts ...gax.CallOption)
(*compute.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }

```

```

}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

```

// 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()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}

```



```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, "", err
}

unm.Unmarshal(buf, resp)
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())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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_gopic. 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 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
}

// 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, "gopic", versionClient, "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())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }
}

```



```

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, 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())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {

```

```

return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

```

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# 1.371 githubcompelletiergotoml v1.9.5

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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## 1.372 eslint 8.20.0

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## 1.373 godirwalk v1.10.3

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# 1.374 google.golang.org/grpc/cmd/protoc-gen-go-grpc v1.1.0

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## 1.376 fs.realpath 1.0.0

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## 1.377 is-shared-array-buffer 1.0.2

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Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124



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## 1.382 go.etcd.io/etcd/client/pkg/v3 v3.5.4

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// Package expect implements a small expect-style interface
// TODO(ptab): Consider migration to https://github.com/google/goexpect.
package expect
```

## 1.383 tough-cookie 2.4.3

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```

> Types for OpenAPI documents.

```
Usage
```

```
``typescript
import { OpenAPIV2, OpenAPIV3, OpenAPIV3_1 } from "openapi-types";

function processV2(doc: OpenAPIV2.Document) {}

function processV3(doc: OpenAPIV3.Document) {}

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...

```

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## 1.388 on-headers 1.0.2

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## 1.397 send 0.17.1

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# 1.402 github.com/h2non/gock v1.0.15

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## 0.20220325020618-49ff273808a1

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# 1.404 browser 2.9.0

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## 1.415 es6-error 4.1.1

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## 1.421 function.prototype.name 1.1.5

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```

same person when interacting with Rietveld.

Please keep the list sorted.

Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header

type Empty interface{}
// This is a mock copyright header.
//
// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.
//

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
 gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

```



```
// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
 return m.recorder
}
```

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## 1.444 @jridgewell/trace-mapping 0.3.14

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\* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/binary\_protocol\_accelerated.c  
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#### == DESCRIPTION:

Thrift is a strongly-typed language-agnostic RPC system. This library is the ruby implementation for both clients and servers.

#### == INSTALL:

```
$ gem install thrift
```

#### == CAVEATS:

This library provides the client and server implementations of thrift. It does *not* provide the compiler for the .thrift files. To compile .thrift files into language-specific implementations, please download the full thrift software package.

#### == USAGE:

This section should get written by someone with the time and inclination. In the meantime, look at existing code, such as the benchmark or the tutorial in the full thrift distribution.

Found in path(s):

```
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/README.md
```

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```

Found in path(s):

- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/protocol\_decorator.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/union\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/binary\_protocol\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/spec\_helper.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/ssl\_server\_socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/core\_ext.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/processor\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/http\_client\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/multiplexed\_processor.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/multiplexed\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/thread\_pool\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/flat\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/framed\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/struct\_nested\_containers\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/serializer/deserializer.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/server\_socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/socket\_spec\_shared.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/types.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/unix\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/core\_ext/fixnum.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/nonblocking\_server\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/client.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/struct.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/http\_client\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/json\_protocol\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/base\_server\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/base\_transport\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/base\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/thin\_http\_server\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/memory\_buffer\_transport.rb

- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/server\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/binary\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/base\_protocol\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/binary\_protocol\_accelerated\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/unix\_server\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/compact\_protocol\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/json\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/binary\_protocol\_accelerated.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/buffered\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/server\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/thrift\_native.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/BaseService.thrift
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/exceptions.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/ssl\_socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/nonblocking\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/ssl\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/ExtendedService.thrift
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/thin\_http\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/processor.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/namespaced\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/compact\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/mongrel\_http\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/base\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/union.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/io\_stream\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/base\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/serializer/serializer.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/extconf.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/struct\_union.rb



- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/unix\_socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/exception\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/benchmark.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/simple\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/bytes.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/threaded\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/types\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/struct\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/client.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/ssl\_server\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/serializer\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/bytes\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/Benchmark.thrift
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/client\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/binary\_protocol\_spec\_shared.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/thin\_server.rb

## 1.447 convert-source-map 1.8.0

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# 1.448 sampler v1.3.0

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# 1.449 performance-now 2.1.0

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## 1.450 @babel/helper-function-name 7.18.9

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## 1.451 prom-client 12.0.0

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# 1.452 motor 2.4.0

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## 1.453 bluebird 3.7.2

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# 1.458 github.com/coreos/go-systemd/v22

## v22.3.2

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# 1.462 json-stringify-safe 5.0.1

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# 1.475 @humanwhocodes/config-array 0.9.5

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```
/**
```

```
* JSONSchema Validator - Validates JavaScript objects using JSON Schemas
* (http://www.json.com/json-schema-proposal/)
*
```

```
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```

To use the validator call the validate function with an instance object and an optional schema object.

If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating), that schema will be used to validate and the schema parameter is not necessary (if both exist, both validations will occur).

The validate method will return an array of validation errors. If there are no errors, then an empty list will be returned. A validation error will have two properties:

"property" which indicates which property had the error

"message" which indicates what the error was

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1173677558_1623725378.39/0/kriszyp-json-schema-v0-2-3-0-g07ae2c6-1-tar-gz/kriszyp-json-schema-07ae2c6/lib/validate.js
```

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```
/**
```

```
* JSON Schema link handler
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```

```
*/
```

Found in path(s):

```
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```

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## 1.513 githubcomgoyamlyaml v3.0.1

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## 1.515 glob-parent 6.0.2

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```
<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>
@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.  
---

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### 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/options#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/options#start_join)` or `[`retry_join`](/docs/agent/options#retry_join)` configurations. If those are both unset or no `[`agent` token](/docs/agent/options#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: 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	<code>/operator/license</code>	<code>application/json</code>

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": "2afb681-0d1a-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": []
}

```

```

...

.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;
  }
}

```

```

}
<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>
The MIT License (MIT)

```

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```

<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 noreferer">
      {{t "components.consul.intention.notice.permissions.footer"}}
    </a>
  </p>

```



```

</notice.Footer>
</Notice>
.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;
  }
}
.consul-intention-permission-header-list {
  max-height: 200px;
  overflow: auto;
}

```

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```

@import './skin';
@import './layout';

```

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.

```
@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;
}

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 [\[licensing documentation\]\(/docs/enterprise/license/overview\)](/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 [\[ACL Guide\]\(https://learn.hashicorp.com/consul/security-networking/production-acls\)](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.hcl
```

...

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.hcl (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

```
...
<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>
 Warning!
 </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>
 Error!
</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>
 Warning!
</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/enterprise/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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```
{{#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}}
License

```

```

```hbs preview-template

```

```

<figure>
<figcaption>URI: <code>/:partition/:namespace/:dc/license</code></figcaption>
<DataSource
  @src={{ {
    uri '/${partition}/${namespace}/${dc}/license'
    (hash
      partition='partition'
      namespace='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';
}
}
}
---
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?

Yes Consul 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-software@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-software@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 license 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
...

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 */
}
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 {
    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;
}
# 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>
 Footer link
 </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)

```
{{#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}}

```

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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>
%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));
}
@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;
}

```

1.534 forever-agent 0.6.1

1.534.1 Available under license :

Apache License

Version 2.0, January 2004

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* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/oc_test.go

1.546 escape-html 1.0.3

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1.547 form-data 2.3.3

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1.549 fs 0.0.2

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1.551 golang-protobuf-extensions v1.0.1

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1.552 istanbuljs-schema 0.1.3

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1.557 require-directory 2.1.1

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1.559 tsconfig-paths 3.14.1

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1.560 python-json-logger 0.1.11

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Upstream-Name: python-json-logger

Source: <https://github.com/madzak/python-json-logger>

Files: *

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1.561 yargs 15.4.1

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1.562 logfmt v0.0.0-20140226030751-b84e30acd515

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Go package for parsing (and, eventually, generating)
log lines in the logfmt style.

See <http://godoc.org/github.com/kr/logfmt> for format, and other documentation and examples.

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1.563 caniuse-lite 1.0.30001375

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1.573 foreground-child 2.0.0

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1.575 object-is 1.1.5

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1.576 toml v0.3.1

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1.577 go-uber-org-multierr v1.6.0

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1.579 go.etcd.io/etcd/client/v2 v2.305.4

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1.580 buffer-equal-constant-time 1.0.1

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1.581 go-toml 1.9.4

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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1.588 uuid 3.4.0

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 * UUIDGen.java
 *
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/*
 * UUID.java
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* Created 07.02.2003
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/*
* MACAddressParserTest.java
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* Created 30.01.2006.
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* Hex.java

*

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*

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1.589 kr v1.1.1

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1.591 balanced-match 1.0.0

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1.592 eslint-visitor-keys 3.3.0

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1.593 jasmine-core 2.99.1

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1.594 @jridgewell/resolve-uri 3.1.0

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1.595 go-radix v1.0.0

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1.596 @babel/helpers 7.18.9

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1.597 go-uber-org-zap v1.17.0

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1.598 genny v0.1.1

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1.601 which-collection 1.0.1

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1.602 tweetnacl 0.14.5

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1.603 combined-stream 1.0.8

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1.605 @babel/helper-hoist-variables 7.18.6

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1.607 isexe 2.0.0

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1.608 ms 2.1.2

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1.618 ws 7.5.9

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1.620 mongo-driver v1.4.1

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1.621 object.entries 1.1.5

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1.622 spf13-pflag v1.0.5

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1.623 side-channel 1.0.4

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1.624 @babel/traverse 7.18.11

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1.625 flatted 3.2.6

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1.626 esquery 1.4.0

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1.628 resolve-from 4.0.0

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1.629 gensync 1.0.0-beta.2

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1.630 path-parse 1.0.7

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1.631 flect v0.1.3

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1.632 functions-have-names 1.2.3

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1.633 verror 1.10.0

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1.634 markupsafe 2.1.1

1.634.1 Available under license :

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Metadata-Version: 2.1

Name: MarkupSafe

Version: 2.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
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Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>
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Project-URL: Source Code, <https://github.com/pallets/markupsafe/>
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Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
License-File: LICENSE.rst

MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

Install and update using `pip`_`:`

`.. code-block:: text`

```
pip install -U MarkupSafe
```

`.. _pip: https://pip.pypa.io/en/stable/getting-started/`

Examples

```
.. code-block:: pycon
```

```
>>> from markupsafe import Markup, escape

>>> # escape replaces special characters and wraps in Markup
>>> escape("<script>alert(document.cookie);</script>")
Markup('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')

>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup("<strong>Hello</strong>")
Markup('<strong>hello</strong>')

>>> escape(Markup("<strong>Hello</strong>"))
Markup('<strong>hello</strong>')

>>> # Markup is a str subclass
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>{ name }</em>")
>>> template.format(name="World")
Markup('Hello <em>&#34;World&#34;</em>')
```

Donate

The Pallets organization develops and supports MarkupSafe and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today` _.

```
.. _please donate today: https://palletsprojects.com/donate
```

Links

- Documentation: <https://markupsafe.palletsprojects.com/>
- Changes: <https://markupsafe.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/MarkupSafe/>
- Source Code: <https://github.com/pallets/markupsafe/>
- Issue Tracker: <https://github.com/pallets/markupsafe/issues/>
- Website: <https://palletsprojects.com/p/markupsafe/>
- Twitter: <https://twitter.com/PalletsTeam>
- Chat: <https://discord.gg/pallets>

Found in path(s):

* /opt/cola/permits/1306998841_1649871237.78/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/PKG-INFO

* /opt/cola/permits/1306998841_1649871237.78/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/src/MarkupSafe.egg-info/PKG-INFO

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[metadata]

name = MarkupSafe

version = attr: markupsafe.__version__

url = <https://palletsprojects.com/p/markupsafe/>

project_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://markupsafe.palletsprojects.com/>

Changes = <https://markupsafe.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/markupsafe/>

Issue Tracker = <https://github.com/pallets/markupsafe/issues/>
Twitter = <https://twitter.com/PalletsTeam>
Chat = <https://discord.gg/pallets>
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely add untrusted strings to HTML/XML markup.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests
filterwarnings =
error

[coverage:run]

branch = True
source =
markupsafe
tests

[coverage:paths]

source =
src
*/site-packages

[flake8]

```
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
```

```
[mypy]
files = src/markupsafe
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

* /opt/cola/permits/1306998841_1649871237.78/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/setup.cfg

1.635 github.com/golang-jwt/jwt/v4 v4.4.2

1.635.1 Available under license :

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1.636 type-is 1.6.18

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1.637 parent-module 1.0.1

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1.638 deep-equal 2.0.5

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1.640 call-bind 1.0.2

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1.650 github.com/godbus/dbus/v5 v5.0.4

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1.659 misspell v0.3.4

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```
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package misspell
```

```
// Legal provides licensing info.
```

```
const Legal = `
```

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```

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```

```
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```

```
* https://golang.org/src/strings/replace.go
```

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1.660 readable-stream 1.1.14

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1.661 js-cookie 2.1.1

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1.662 aws-sdk-go v1.29.15

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1.663 rimraf 3.0.2

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1.664 @babel/helper-environment-visitor

7.18.9

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1.665 is-number-object 1.0.7

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1.666 groupcache v0.0.0-20210331224755-41bb18bfe9da

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1.667 signal-exit 3.0.7

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1.668 mv 2.1.1

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1.669 opencensus-proto v0.2.1

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1.670 toml 0.9.2

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1.672 sirupsen-logrus v1.6.0

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1.674 maglev-fips 1.0.0

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* /opt/cola/permits/1230758053_1657923836.2243383/0/maglev-fips-1-0-0-tar-gz/maglev-fips-1.0.0/maglev_fips/__init__.py

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*

* maglev_fips is a python module that gives you access to 2 functions of CiscoSSL

* or FIPS compliant OpenSSL. They are FIPS_mode() which checked if the FIPS mode

* is enabled in the library, and FIPS_mode_set() which sets (or unsets) FIPS mode.

*/

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* /opt/cola/permits/1230758053_1657923836.2243383/0/maglev-fips-1-0-0-tar-gz/maglev-fips-1.0.0/maglev-fips/src/maglevfips.c

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* /opt/cola/permits/1230758053_1657923836.2243383/0/maglev-fips-1-0-0-tar-gz/maglev-fips-1.0.0/setup.py

1.675 x-oauth2 v0.0.0-20220411215720-9780585627b5

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1.676 strip-json-comments 3.1.1

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1.677 unpipe 1.0.0

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1.678 saslprep 1.0.3

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1.679 content-type 1.0.4

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1.680 mod v0.4.2

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1.681 google-go-cmp v0.5.8

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1.682 githubcommitchellhmapstructure v1.5.0

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