



Open Source Used In AppDynamics_Distribution_for_Open Telemetry_Collector 23.10.0

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1.6 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.7 go-autorest-tracing 0.6.0

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1.8 go-orest-to 0.4.0

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1.9 go-autorest-date 0.3.0

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1.10 go-autorest-validation 0.3.1

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1.12 mwitkow-go-contrack 0.0.0-20190716064945-2f068394615f

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1.14 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.15 spf13-pflag 1.0.5

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1.16 afero 1.0.5

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1.17 go-jmespath 0.4.0

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1.18 kylelemons-godebug 1.1.0

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1.19 errors 0.9.1

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1.23 golang-snappy 0.0.4

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1.24 hashstructure 2.0.2

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1.25 jpillora-backoff 1.0.0

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1.27 dennwc-varint 1.0.0

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1.28 leodido-ragel-machinery 0.0.0-

20181214104525-299bdde78165

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1.29 easyjson 0.7.7

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1.30 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.31 pkg-browser 0.0.0-20210911075715-681adbf594b8

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1.32 json-iterator-go 1.1.12

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1.33 modern-go-reflect2 1.0.2

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```

package spec

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
```

```
    Name string `json:"name,omitempty"`
```

```
    URL  string `json:"url,omitempty"`
```

```
}
```

```
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```

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1.49 go-autorest-logging 0.2.1

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1.54 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.55 mitchellh-copystructure 1.2.0

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1.56 glob 0.2.3

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1.58 felixge-httpsnoop 1.0.3

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1.59 go-kit-log 0.2.1

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1.60 azure-sdk-for-go 65.0.0+incompatible

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1.61 mitchellh-copystructure 1.2.0

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1.62 openshift-api 3.9.0+incompatible

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1.63 hashstructure 2.0.2

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1.64 gorilla 1.5.0

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1.65 spew 1.1.2-0.20180830191138-d8f796af33cc

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1.67 influxdata-go-syslog 3.0.1- 0.20210608084020-ac565dc76ba6

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1.68 vultr-govultr 2.17.2

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1.69 go-colorable 0.1.13

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1.70 units 0.0.0-20211218093645-b94a6e3cc137

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1.71 google-go-cmp 0.5.9

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1.72 go-units 0.5.0

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1.73 go-zookeeper-zk 1.0.3

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1.74 armon-go-metrics 0.4.1

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

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1.86 etcd v3.5.4

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1.87 x-time-rate 0.3.0

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1.88 xxhash 2.2.0

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1.89 kolo-xmlrpc 0.0.0-20220921171641-a4b6fa1dd06b

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1.90 grafana-regex 0.0.0-20221122212121-6b5c0a4cb7fd

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1.92 go-openapi-jsonreference 0.20.2

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1.93 fsnotify 1.6.0

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1.94 go-units 0.5.0

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1.95 go-zookeeper v1.0.3

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1.96 easyjson 0.7.7

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1.97 x-time-rate 0.3.0

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1.98 lumberjack 2.2.1

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1.99 gogo-protobuf 1.3.2

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1.100 hashicorp-go-cleanhttp 0.5.2

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1.101 inconstreveable-mousetrap 1.1.0

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1.102 golang-jwt 4.5.0

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1.103 go-ole-go-ole 1.2.6

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1.104 goprotobuf 1.5.3

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1.105 logfmt 0.6.0

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1.107 go-restful 3.10.2

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1.108 logr 1.2.4

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/*!

* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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Found in path(s):

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js

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Source: <https://github.com/algolia/docsearch/>

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",
       family = "Bosak",
       role = c("aut", "cre"),
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 3.4.0)

Suggests: knitr,
rmarkdown,
testthat,
tidylog,
dplyr,
utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

1.109 cobra 1.7.0

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// Awesomeplete - Lea Verou - MIT license

Found in path(s):

* /opt/cola/permits/1640692646_1681936294.8887305/0/project-nisei-cobra-v1-7-0-0-g008e1ef-tar-gz/Project-NISEI-cobra-008e1ef/app/assets/javascripts/awesomeplete.js

1.110 color 1.15.0

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1.111 go-hclog 1.5.0

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1.113 doublestar 4.6.0

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1.114 go-autorest-adal 0.9.23

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1.116 golang-protobuf-extensions 1.0.4

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1.117 logr 1.2.4

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",  
       family = "Bosak",  
       role = c("aut", "cre"),  
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 3.4.0)

Suggests: knitr,
 rmarkdown,
 testthat,
 tidylog,
 dplyr,
 utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION
```

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```
/*!
```

```
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
```

```
* Copyright 2015 Aidan Feldman
```

```
* Licensed under MIT (https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md) */
```

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js
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/*
Source: https://github.com/algolia/docsearch/
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*/
```

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```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css
```

1.118 azure-azure-sdk-for-go-sdk-internal

1.3.0

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1.119 go.uber.org/atom 1.11.0

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1.120 backoff 4.2.1

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1.121 docker-distribution 2.8.2+incompatible

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

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Gocheck - A rich testing framework for Go

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1.123 go-winio 0.6.1

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1.124 kubernetes-klog 2.100.1

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1.125 mattn-go-isatty 0.0.19

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1.127 go-autorest 0.11.29

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1.130 testify 1.8.4

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1.131 yusufpapurcu-wmi 1.2.3

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1.132 mergo 0.3.16

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

site: string

author: root

1.133 numcpus 0.6.1

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1.134 ovh-go-ovh 1.4.1

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1.135 godo 1.99.0

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1.136 go-retryablehttp 0.7.4

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1.137 go-openapi-swag 0.22.4

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1.138 go-autorest 0.11.29

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1.139 mergo 0.3.16

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

site: string

author: root

1.140 testify 1.8.4

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1.141 google-gnostic-models 0.6.8

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1.142 go-retryablehttp 0.7.4

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1.143 opencontainers-image-spec 1.1.0-rc4

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1.144 gophercloud 1.5.0

1.144.1 Available under license :

Step 5: Writing the Code

=====

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a *very* rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

###

A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for *each* field.

Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for *each* call.

The following Pull Requests are good examples of how to do this:

- * <https://github.com/gophercloud/gophercloud/pull/584>
- * <https://github.com/gophercloud/gophercloud/pull/586>
- * <https://github.com/gophercloud/gophercloud/pull/587>
- *
- <https://github.com/gophercloud/gophercloud/pull/594>

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](<https://github.com/gophercloud/gophercloud/issues/723>).

What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

Documentation

All documentation in Gophercloud is done through in-line ``godoc``. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a ``doc.go`` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following ``git`` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
```

Advantages of this Method:

- * Pull Requests can be merged in any order
- * Additional commits to one Pull

Request are independent of other Pull Requests

Disadvantages of this Method:

- * There will be a lot of duplicate code in each Pull Request
- * You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```
```

Advantages of this Method:

- * Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

- * If a Pull Request requires changes, you will have to rebase all child Pull Requests based off of the parent.

The choice of method is up to you.

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Contributor Tutorial

=====

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

/*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

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END OF TERMS AND CONDITIONS

Step 6: Code Review

=====

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
 - a. Unit Tests
 - b. Code Formatting checks
 - c. ``go vet`` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is `_sometimes_` unavoidable and ignorable.

OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
package testing

```
import (  
  "fmt"  
  "net/http"  
  "testing"  
  
  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
  th "github.com/gophercloud/gophercloud/testhelper"  
  "github.com/gophercloud/gophercloud/testhelper/client"  
)  
  
// ListResult provides a single page of RESOURCE results.  
const ListResult = `  
{  
}  
`
```

```

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the
slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
}
}

```

```

    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t,
            r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r,
            "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
    })
}

```

```

th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {

```

```

pagination.LinkedPageBase
}

// IsEmpty determines whether
// or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    if r.StatusCode == 204 {
        return true, nil
    }

    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource
    } `json:"resource"`
    err := r.ExtractInto(&s)
    return s.Resource, err
}

```

```

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
    return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

//
// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.

```



```

type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{ }, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{ }, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes:
        []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{ }, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{ }, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

```

```

}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if
    err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

package testing

import (
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
    err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
        count++

        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)

        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {

```

```

th.SetupHTTP()
defer th.TearDownHTTP()
HandleListResourcesSuccessfully(t)

allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t,
err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()

```

```
HandleUpdateResourceSuccessfully(t)
```

```
updateOpts
```

```
:= resources.UpdateOpts{  
  Description: "Staging Resource",  
}
```

```
actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()  
th.AssertNoErr(t, err)  
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)  
}
```

Step 4: Acceptance Testing

=====

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you must be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [[here](#)](/acceptance) to help you build your own small OpenStack environment for testing.

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!)

start working on a Pull

Request.

Step 7: Congratulations!

=====

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 3: Code Hunting

=====

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:

<https://github.com/gophercloud/gophercloud/issues/621>.

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```
```go
type Network struct {
 ID string `json:"id"`
 Name string `json:"name"`
 AdminStateUp bool `json:"admin_state_up"`
 Status string `json:"status"`
 Subnets []string `json:"subnets"`
 TenantID string `json:"tenant_id"`
 Shared bool `json:"shared"`
}
```
```

to look like

```
```go
type Network struct {
 ID string `json:"id"`
 Name string `json:"name"`
 AdminStateUp bool `json:"admin_state_up"`
 Status string `json:"status"`
 Subnets []string `json:"subnets"`
 TenantID string `json:"tenant_id"`
 Shared bool `json:"shared"`

 AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are `_not_` implying
> that the API docs aren't
useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of ``availability_zone_hints`` in the following piece of code:

```
https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191
```

The above code confirms that ``availability_zone_hints`` is indeed part of the ``Network`` object and that its type is a list of strings (`[]string``).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is `_not_` fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

- * <https://github.com/gophercloud/gophercloud/issues/539>
- * <https://github.com/gophercloud/gophercloud/issues/555>
- * <https://github.com/gophercloud/gophercloud/issues/571>
- * <https://github.com/gophercloud/gophercloud/issues/583>
- * <https://github.com/gophercloud/gophercloud/issues/605>

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

- * The logic which implements Create and Delete actions is usually either located

in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

=====

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

Step 2: Create an Issue

=====

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* <https://github.com/gophercloud/gophercloud/issues/108>

* <https://github.com/gophercloud/gophercloud/issues/212>

* <https://github.com/gophercloud/gophercloud/issues/424>

- * <https://github.com/gophercloud/gophercloud/issues/588>
- * <https://github.com/gophercloud/gophercloud/issues/629>
- * <https://github.com/gophercloud/gophercloud/issues/647>

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect *_all_* of Gophercloud.

The following issues are examples of core change discussions:

- * <https://github.com/gophercloud/gophercloud/issues/310>
- * <https://github.com/gophercloud/gophercloud/issues/613>
- * <https://github.com/gophercloud/gophercloud/issues/729>
- * <https://github.com/gophercloud/gophercloud/issues/713>

Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

- * <https://github.com/gophercloud/gophercloud/issues/620>
- * <https://github.com/gophercloud/gophercloud/issues/621>
- * <https://github.com/gophercloud/gophercloud/issues/658>

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the ``Get`` function of ``networking/v2/networks``. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in ``networking/v2/extensions``.

Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

```
* https://github.com/gophercloud/gophercloud/issues/715
*
https://github.com/gophercloud/gophercloud/issues/719
```

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

```
* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605
```

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for `_issues_`, but it's usually a good idea to provide them, anyway. These links `_are required_` for PRs and that will be covered in detail in a later step of this tutorial.

Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for

an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* <https://github.com/gophercloud/gophercloud/issues/723>

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

package RESOURCE

```
import "github.com/gophercloud/gophercloud"
```

```
func listURL(client *gophercloud.ServiceClient) string {  
    return client.ServiceURL("resource")  
}
```

```
func getURL(client *gophercloud.ServiceClient, id string) string {  
    return client.ServiceURL("resource", id)  
}
```

```
func createURL(client *gophercloud.ServiceClient) string {  
    return client.ServiceURL("resource")  
}
```

```
func deleteURL(client *gophercloud.ServiceClient, id string) string {  
    return client.ServiceURL("resource", id)  
}
```

```
func updateURL(client *gophercloud.ServiceClient, id string) string {  
    return client.ServiceURL("resource", id)  
}
```

1.145 x-exp 0.0.0-20230713183714-613f0c0eb8a1

1.145.1 Available under license :

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1.147 azure-azure-sdk-for-go-sdk-azcore 1.7.0

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1.150 go-openapi-jsonpointer 0.20.0

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1.151 prometheus-procfs 0.11.1

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1.152 proto-otlp 1.0.0

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1.153 gopkg.in-yaml 3.0.1

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1.154 yaml 1.3.0

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1.155 protobuf 1.31.0

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1.156 sigs.k8s.io-json 0.0.0-20221116044647-bc3834ca7abd

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1.157 go-uber-org-multierr 1.11.0

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1.158 structured-merge-diff 4.3.0

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1.159 gopkg.in-inf 0.9.1

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1.160 gopkg.in-ini 1.67.0

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1.161 go-sysconf 0.3.12

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1.162 golang 1.20.7

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1.166 protoc-gen-validate 1.0.2

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1.167 ionos-cloud-sdk-go 6.1.8

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1.170 iancoleman-strcase 0.3.0

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1.171 knadh-koanf 2.0.1

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1.172 mitchellh-mapstructure 1.5.1-

0.20220423185008-bf980b35cac4

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1.173 go-compute-metadata 0.2.4-

0.20230617002413-005d2dfb6b68

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {

```

```

// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
// TODO: Fill request
struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
//
TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.

```



```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range
    // values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown
    // in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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```

```
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```

```
package compute
```

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "io/ioutil"  
    "math"  
    "net/http"  
    "net/url"  
  
    computepb "cloud.google.com/go/compute/apiv1/computepb"  
    gax "github.com/googleapis/gax-go/v2"  
    "google.golang.org/api/googleapi"  
    "google.golang.org/api/iterator"  
    "google.golang.org/api/option"  
    "google.golang.org/api/option/internaloption"  
    httptransport  
    "google.golang.org/api/transport/http"  
    "google.golang.org/grpc"  
    "google.golang.org/grpc/metadata"  
    "google.golang.org/protobuf/encoding/protojson"  
    "google.golang.org/protobuf/proto"  
)
```

```
var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {  
    Delete      []gax.CallOption  
    Get        []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert     []gax.CallOption  
    List      []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption  
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{  
        Delete:      []gax.CallOption{ },  
        Get:         []gax.CallOption{ },  
    }
```

```

    GetIamPolicy: []gax.CallOption{ },
    Insert:       []gax.CallOption{ },
    List:        []gax.CallOption{ },
    SetIamPolicy: []gax.CallOption{ },
    TestIamPermissions: []gax.CallOption{ },
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

```

```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method

```

to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string
```

```
    // The http client.
    httpClient *http.Client
```

```
    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient
```

```
    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
```

```
    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}
```

// NewLicensesRESTClient creates a new licenses rest client.

```
//
```

// The Licenses API.

```
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
}
```

```

httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
    return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
    endpoint:    endpoint,
    httpClient:  httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "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: This method always returns nil.
func (c *licensesRESTClient) Connection()
*grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
"application/json"))
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    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

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 maybeUnknowEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:
            c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
"application/json"))
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

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

```

```

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

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

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

return nil
}, opts...)
if e != nil {
    return
    nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",

```

```

url.QueryEscape(req.GetProject()))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

return
nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c: c.operationClient,
proto: resp,
project: req.GetProject(),

```

```

    },
  }
  return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true,
  DiscardUnknown: true}
  it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
      req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
      req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
      req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
      return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
      params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
      params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
      params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
      params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
    }
    if req != nil && req.ReturnPartialSuccess != nil {
      params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
    }
  }
}

```

```

}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

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

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

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

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

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {

```



```

    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial:
true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown:
true }
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

return nil
}, opts...)
if e != nil {

```

```

    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    //
    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

```

```
func (it *LicenseIterator) takeBuf() interface{} {  
    b := it.items  
    it.items = nil  
    return b  
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (

"bytes"

"context"

"fmt"

"io/ioutil"

"net/http"

"net/url"

computepb "cloud.google.com/go/compute/apiv1/computepb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/googleapi"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/grpc/metadata"

"google.golang.org/protobuf/encoding/protojson"

)

var

newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.

type LicenseCodesCallOptions struct {

Get []gax.CallOption

TestIamPermissions []gax.CallOption

}

```

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
return &LicenseCodesCallOptions{
    Get:          []gax.CallOption{},
    TestIamPermissions: []gax.CallOption{},
}
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

//

```

```

Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
    req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx,
        clientOpts...)
    if err != nil {

```

```

return nil, err
}

callOpts := defaultLicenseCodesRESTCallOptions()
c := &licenseCodesRESTClient{
    endpoint:    endpoint,
    httpClient:  httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go",
    versionGo()}, keyval...)
kv = append(kv, "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 *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

```

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
(*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())
```

// Build HTTP headers from client and context metadata.

```
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))
```

```
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
```

```
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
resp := &computepb.LicenseCode{ }
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    if settings.Path != "" {
```

```
        baseUrl.Path = settings.Path
```

```
    }
```

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

```
    if err
```

```
    != nil {
```

```
        return err
```

```
    }
```

```
    httpReq = httpReq.WithContext(ctx)
```

```
    httpReq.Header = headers
```

```
    httpRsp, err := c.httpClient.Do(httpReq)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    defer httpRsp.Body.Close()
```

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

```
        return err
```

```
    }
```

```
    buf, err := ioutil.ReadAll(httpRsp.Body)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq,
    err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    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 := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

1.174 gonum-matrix v0.14.0

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1.176 gonum-blas v0.14.0

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1.178 mitchellh-mapstructure 1.5.1-0.20220423185008-bf980b35cac4

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1.179 gax-go 2.12.0

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1.180 utils 0.0.0-20230711102312-30195339c3c7

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layout: docs

page_title: 'Commands: license'

description: |

The license command is used to interact with an enterprise license.

Command: license

~> License commands are only available with Nomad Enterprise.

The `license` commands can be used to retrieve license information from a server, or inspect and validate a license.

Click [\[here\]\(https://www.hashicorp.com/products/nomad/trial\)](https://www.hashicorp.com/products/nomad/trial) to get a trial license for Nomad Enterprise.

Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following subcommands are available:

- [`license get`][`get`] - Get the current license from a server
- [`license inspect`][`inspect`] - Inspect and validate a license

[`get`]: /nomad/docs/commands/license/get 'Get the current license from a server'

[`inspect`]: /nomad/docs/commands/license/inspect 'Inspect and validate a license'

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layout: docs

page_title: Nomad Enterprise Licensing

description: >-

Learn about how Nomad Enterprise licensing works.

Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in the cluster must have a license to start. Nomad Enterprise can be downloaded from the [releases site].

Click [here](<https://www.hashicorp.com/go/nomad-enterprise>) to set up a demo of Nomad Enterprise or [here](</nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license>) for instructions on how to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster, due to raft entries relating to Enterprise features not being parseable by open source Nomad.

Expiring Licenses

Nomad Enterprise licenses have an expiration time.

You can read and validate the license on a running

server,
on disk, or in your environment with the
[nomad license` commands](/nomad/docs/commands/license).

Before upgrading Nomad or replacing your license with a new one, you should always run
[nomad license inspect`](/nomad/docs/commands/license/inspect)
to ensure the license is valid with your server binary.

As a Nomad Enterprise license approaches its expiration time, Nomad servers
will periodically log a warning message about the approaching
expiration. Below shows log excerpts of the warnings.

...

```
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400 [WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400
[WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
...
```

When the license expires, enterprise functionality will become limited. Only
read operations on enterprise endpoints will be supported, and write
operations will return an error.

Configuring the License

See the server [license configuration] reference documentation on all the
options to set an enterprise license. Nomad will load the license file from
disk or environment when it starts.

~> **Note:** An Enterprise license [tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license) is available
to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a
license configuration option is an invalid or expired license, the Nomad server
will exit with an error.

...

```
NOMAD_LICENSE=misconfigured nomad agent -dev
==>
No configuration files loaded
==> Starting Nomad agent...
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but
the license is invalid: error decoding version: expected integer
```

...

See the [License commands](/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

```
[releases site]: https://releases.hashicorp.com/nomad
[license configuration]: /nomad/docs/configuration/server#license_path
[license endpoint]: /nomad/api-docs/operator/license#updating-the-nomad-enterprise-license
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: BUSL-1.1
```

package command

```
import (
    "fmt"
    "strings"
    "time"

    "github.com/hashicorp/nomad/api"
    "github.com/mitchellh/cli"
)

var _ cli.Command = &LicenseCommand{}

type LicenseCommand struct {
    Meta
}

func (l *LicenseCommand) Help() string {
    helpText := `
Usage: nomad license <subcommand> [options] [args]

This command has subcommands for managing the Nomad Enterprise license.
For more detailed examples see:
https://www.nomadproject.io/docs/commands/license/

Retrieve the server's license:

$ nomad license get

`
    return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
    return "Interact with Nomad Enterprise License"
}
```

```

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
    return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
    now := time.Now()
    expired := resp.License.ExpirationTime.Before(now)
    terminated
:= resp.License.TerminationTime.Before(now)
    outputLicenseInfo(ui, resp.License, expired, terminated)
    if expired {
        return 1
    }
    return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired, terminated bool) {
    expStr := ""
    if expired {
        expStr = fmt.Sprintf("Expired At%s", lic.ExpirationTime.String())
    } else {
        expStr = fmt.Sprintf("Expires At%s", lic.ExpirationTime.String())
    }
    termStr := ""
    if terminated {
        termStr = fmt.Sprintf("Terminated At%s", lic.TerminationTime.String())
    } else {
        termStr = fmt.Sprintf("Terminates At%s", lic.TerminationTime.String())
    }

    validity := "valid"
    if expired {
        validity = "expired!"
    }

    output := []string{
        fmt.Sprintf("Product%s", lic.Product),
        fmt.Sprintf("License Status%s", validity),
        fmt.Sprintf("License ID%s", lic.LicenseID),
        fmt.Sprintf("Customer ID%s", lic.CustomerID),
        fmt.Sprintf("Issued At%s", lic.IssueTime),
        expStr,
        termStr,
        fmt.Sprintf("Datacenter%s", lic.InstallationID),
    }
    ui.Output(formatKV(output))
}

```



```

if
len(lic.Modules) > 0 {
  ui.Output("Modules:")
  for _, mod := range lic.Modules {
    ui.Output(fmt.Sprintf("%t%s", mod))
  }
}
if len(lic.Features) > 0 {
  ui.Output("Licensed Features:")
  for _, f := range lic.Features {
    ui.Output(fmt.Sprintf("%t%s", f))
  }
}
}
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: BUSL-1.1

//go:build !ent

package nomad

func (c *LicenseConfig) Validate() error {
  return nil
}
---
layout: api
page_title: License - Operator - HTTP API
description: |-
  The /operator/license endpoints allow for retrieving the Nomad Enterprise License.
---

# License Operator HTTP API

<EnterpriseAlert />

## Get Nomad Enterprise License Info

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/v1/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/nomad/api-docs#blocking-queries) and
[required ACLs](/nomad/api-docs#acls).

| Blocking Queries | ACL Required |

```

```
|-----|-----|
|`NO`   |`operator:read`|
```

Sample Request

```
```shell-session
$ curl \
 https://localhost:4646/v1/operator/license
```
```

Sample Response

```
```json
{
 "KnownLeader": false,
 "LastContact": 0,
 "LastIndex": 0,
 "License": {
 "CustomerID": "customer name",
 "ExpirationTime":
 "2020-06-01T14:50:16.581304556-04:00",
 "Features": [
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Redundancy Zones",
 "Namespaces",
 "Resource Quotas",
 "Preemption",
 "Audit Logging",
 "Setinel Policies"
],
 "Flags": {
 "modules": ["governance-policy"]
 },
 "InstallationID": "*",
 "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
 "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
 "Modules": ["governance-policy"],
 "Product": "nomad",
 "StartTime": "2020-06-01T08:50:16.581304556-04:00",
 "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
 },
 "RequestTime": 0
}
```

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```

package command

```
import (  
    "fmt"  
  
    "github.com/hashicorp/nomad/api"  
    "github.com/posener/complete"  
)
```

```
type LicenseGetCommand struct {  
    Meta  
}
```

```
func (c *LicenseGetCommand) Help() string {  
    helpText := `  
Usage: nomad license get [options]
```

Gets the license loaded by the server. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options:

```
` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)
```

```
return helpText  
}
```

```
func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {  
    return complete.Flags{ }  
}
```

```
func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {  
    return complete.PredictNothing  
}
```

```
func (c *LicenseGetCommand) Synopsis() string {  
    return "Retrieve the current Nomad Enterprise License"  
}
```

```
func (c *LicenseGetCommand)  
    Name() string { return "license get" }
```

```
func (c *LicenseGetCommand) Run(args []string) int {  
    flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
```

```

flags.Usage = func() { c.Ui.Output(c.Help()) }

if err := flags.Parse(args); err != nil {
    c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
    return 1
}

client, err := c.Meta.Client()
if err != nil {
    c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
    return 1
}

resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{})
if err != nil {
    c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
    return 1
}

return OutputLicenseReply(c.Ui, resp)
}
// Copyright (c) HashiCorp, Inc.
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package nomad

import (
    "slices"
    "time"
)

// LicenseConfig allows for tunable licensing config
// primarily used for enterprise testing
type LicenseConfig struct {
    // BuildDate is the time of the git commit used to build the program.
    BuildDate time.Time

    // LicenseEnvBytes is the license bytes to use for the server's license
    LicenseEnvBytes string

    // LicensePath is the path to use for the server's license
    LicensePath string

    // AdditionalPubKeys is a set of public keys to
    AdditionalPubKeys []string
}

func (c *LicenseConfig) Copy() *LicenseConfig {

```

```
if c == nil {
    return nil
}

nc := *c
nc.AdditionalPubKeys = slices.Clone(c.AdditionalPubKeys)
return &nc
}
```

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layout: docs

page_title: Nomad Enterprise License FAQ

description: >-

Frequently Asked Questions pertaining to Nomad Enterprise Licensing.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.6.0+ent.

For license-related FAQ for earlier versions, please refer to earlier versions of this document using the version drop-down on this page, e.g. [v1.5.x]/(nomad/docs/v1.5.x/enterprise/license/faq).

Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.6.0, license expiration is different.

For trial licenses, the behavior remains the same. Enterprise features will stop working when the license expires, and a server can not start with an expired license.

For new "non-terminating" contract licenses, instead of expiration being compared to the current time, expiration time is compared to the build date of the Nomad binary, which you can find in the output of the [nomad version]/(nomad/docs/commands/version)

command.

The practical result is that newer contract licenses will work in perpetuity for any v1.6.0+ version of Nomad built prior to the expiration time of the license. No features will stop working, and server agents can be restarted safely.

However, if you try to upgrade to a newer binary past license expiration, the server will not start. To proactively avoid that, you can test a new binary with your license using the new `[nomad license inspect`]` `[license inspect]` command before trying to upgrade your servers.

Q: What resources are available?

The list below is a great starting point for learning more about license usage in general.

- [\[v1.6.0 Upgrade Guide\]](/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate)
- [\[Nomad License Documentation\]](/nomad/docs/enterprise/license)
- [\[License configuration values documentation\]](/nomad/docs/configuration/server#license_path)
- [\[Install a HashiCorp Enterprise License Tutorial\]](/nomad/tutorials/enterprise/hashicorp-enterprise-license)

##

Q: Does this affect older versions of Nomad?

This change only affects Nomad Enterprise version v1.6.0+ent and later.

Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present. Nomad agents running with the ``-dev`` flag will also need a license.

Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you have an expired license that has not yet become fully nonfunctional (i.e. it is in grace period between `ExpirationTime` and `TerminationTime`), then a Nomad server will not be able to start using a new v1.6.0+ binary.

Before shutting down a server agent to replace it with a new version, be sure to run `[nomad license inspect`]` `[license inspect]` with the new binary.

Q: How can a user get their existing 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.

You can use ``nomad license get`` to retrieve information about the license, but not the license itself.

Q: What happens when a license expires?

All features will continue to work until you attempt to upgrade Nomad that is newer than your license expiration time.

In that case, the server agent will fail to start, and you'll need to roll back to the previous working version and acquire a new license to use with the newer Nomad version before attempting the upgrade again.

Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

Q: Where can users get a trial license for Nomad?

Visit <https://nomadproject.io/trial> for a free 30-day trial license.

Q: When a Nomad client agent restarts, will it still need a license file?

Every time `nomad agent` runs as a server (or in `-dev`), it requires a license.

Q: May I downgrade Nomad Enterprise from v1.6.0 to an earlier version?

Yes, if you upgrade a server to 1.6.0+ but it fails to start due to license expiration, you can roll back to a previous working version with the old expiration logic.

If a server fails to start for any other reason aside from license expiration, roll back to a previous version is not supported due to the Nomad state store not having forward compatibility, and may result in a crash loop.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license).

```
[license inspect]: /nomad/docs/commands/license/inspect
```

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: BUSL-1.1
```

```
package command
```

```
import (
```

```
    "testing"
```

```
    "time"
```

```
    "github.com/hashicorp/nomad/api"
```

```
    "github.com/hashicorp/nomad/ci"
```

```
    "github.com/mitchellh/cli"
```

```
    "github.com/stretchr/testify/require"
```

```
)
```



```

var _ cli.Command = &LicenseGetCommand{ }

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
ci.Parallel(t)

srv, _, url := testServer(t, false, nil)
defer srv.Shutdown()

ui := cli.NewMockUi()
cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

code := cmd.Run([]string{"-address=" + url})
if srv.Enterprise {
require.Equal(t, 0, code)
} else {
require.Equal(t, 1, code)
require.Contains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
}
}

func TestOutputLicenseReply(t *testing.T) {
ci.Parallel(t)

now := time.Now()
lic := &api.LicenseReply{
License: &api.License{
LicenseID: "licenseID",
CustomerID: "customerID",
InstallationID: "*",
IssueTime: now,
StartTime: now,
ExpirationTime:
now.Add(1 * time.Hour),
TerminationTime: now,
Product: "nomad",
Flags: map[string]interface{}{
"": nil,
},
},
}

ui := cli.NewMockUi()

require.Equal(t, 0, OutputLicenseReply(ui, lic))

out := ui.OutputWriter.String()
require.Contains(t, out, "Customer ID")

```

```
require.Contains(t, out, "License ID")
}
```

layout: docs

page_title: 'Commands: license inspect'

description: |

The license inspect command is used to inspect and validate an enterprise license.

Command: license inspect

<EnterpriseAlert>

This command is only present in Nomad Enterprise.

</EnterpriseAlert>

The `license inspect` command is used to inspect and validate a Nomad Enterprise license. It will read the license from a file on disk or an environment variable and exit non-0 if the license is not valid with the Nomad binary.

This command should always be run with the new binary before upgrading Nomad on a server, as the server agent will not start with an invalid license.

Usage

```plaintext

```
nomad license inspect [/path/to/license.hcl]
```

```

Examples

With a license file argument:

```shell-session

```
$ nomad license inspect /path/to/nomad/license.hcl
```

```
Source: /path/to/nomad/license.hcl
```

```
Product: nomad
```

```
License ID: aaaaaaaaa-aaaa-aaaa-aaaa-aaaaaaaaaaaa
```

```
Customer ID: bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb
```

```
Installation
```

```
ID: *
```

```
Issue Time: 2021-12-01 17:49:23.021041516 +0000 UTC
```

```
Start Time: 2021-12-01 00:00:00 +0000 UTC
```

```
Expiration Time: 2023-12-01 00:00:00 +0000 UTC
```

```
Termination Time: 2024-01-01 00:00:00 +0000 UTC
```

```
Build Date: 2000-01-01 00:00:00 +0000 UTC
```

```
Flags: {
```

```
 "modules": [
```

```
 "multicluster-and-efficiency",
```

```
"governance-policy"
]
}
```

License is valid  
---

With a license file environment variable:

```
```shell-session  
$ export NOMAD_LICENSE_PATH=/path/to/nomad/license.hcl  
$ nomad license inspect  
Source: /path/to/nomad/license.hcl (path from the NOMAD_LICENSE_PATH environment variable)  
Product: nomad  
.....  
License is valid  
---
```

With a license string environment variable:

```
```shell-session  
$ export NOMAD_LICENSE=full-license-text-string
$ nomad license inspect
Source: NOMAD_LICENSE environment variable
.....
License is valid

```

## Example error

```
```shell-session  
$ nomad license inspect license.hcl  
...  
Validation Errors:  
* license is no longer valid  
* license expiration  
date is before version build date: expiration=2023-01-13T23:59:59Z build=2023-03-17T00:00:00Z  
---
```

```
---  
layout: docs  
page_title: 'Commands: license get'  
description: |  
The license get command is used to get the current license.  
---
```

Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise

license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

Usage

```
```plaintext
nomad license get [options]
```
```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options

```
@include 'general_options_no_namespace.mdx'
```

Examples

```
```shell-session
$ nomad license get
```

```
Product = nomad
License Status = valid
License ID = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At = 2020-05-09 00:00:00 +0000 UTC
Terminates At = 2020-05-10
 00:00:00 +0000 UTC
Datacenter = *
Modules:
 governance-policy
Licensed Features:
 Automated Upgrades
 Enhanced Read Scalability
 Redundancy Zones
 Namespaces
 Resource Quotas
 Preemption
 Audit Logging
 Sentinel Policies
```
```

```
```shell-session
$ nomad license get -stale=true
```

Product = nomad  
License Status = valid  
License ID = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d  
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2  
Issued At = 2021-03-31 14:21:16.969610774 +0000 UTC  
Expires At = 2022-04-01 00:00:00 +0000 UTC  
Terminates At = 2022-04-04 00:00:00 +0000 UTC  
Datacenter = \*

Modules:

- governance-policy
- multicluster-and-efficiency

Licensed Features:

- Automated Upgrades
- Enhanced Read Scalability
- Redundancy Zones
- Namespaces
- Resource Quotas
- Audit Logging
- Sentinel Policies
- Multiregion Deployments
- Automated Backups

Multi-Vault Namespaces

^^^

# 1.181 google-uuid 1.3.1

## 1.181.1 Available under license :

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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## 1.182 x-text 0.13.0

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## 1.183 golang 1.21.1

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This package parses SPDX license expression strings describing license terms, like [package.json license strings](<https://docs.npmjs.com/files/package.json#license>), into consistently structured ECMAScript objects. The npm command-line interface depends on this package, as do many automatic license-audit tools.

In a nutshell:

```
```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
  // Licensed under the terms of the Two-Clause BSD License.
  parse('BSD-2-Clause'),
  {license: 'BSD-2-Clause'}
)

assert.throws(function () {
  // An invalid SPDX license expression.
  // Should be `Apache-2.0`.
  parse('Apache 2')
})

assert.deepEqual(
  // Dual licensed under LGPL 2.1 or a combination of the Three-Clause
  // BSD License and the MIT License.
  parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
  {
    left: {license: 'LGPL-2.1'},
    conjunction: 'or',
    right: {
      left: {license: 'BSD-3-Clause'},
      conjunction: 'and',
      right:
        {license: 'MIT'}
    }
  }
}
```



```
}  
)  
...
```

The syntax comes from the [Software Package Data eXchange (SPDX)](<https://spdx.org/>), a standard from the [Linux Foundation](<https://www.linuxfoundation.org>) for shareable data about software package license terms. SPDX aims to make sharing and auditing license data easy, especially for users of open-source software.

The bulk of the SPDX standard describes syntax and semantics of XML metadata files. This package implements two lightweight, plain-text components of that larger standard:

1. The [license list](<https://spdx.org/licenses>), a mapping from specific string identifiers, like `Apache-2.0`, to standard form license texts and bolt-on license exceptions. The [spdx-license-ids](<https://www.npmjs.com/package/spdx-exceptions>) and [spdx-exceptions](<https://www.npmjs.com/package/spdx-license-ids>) packages implement the license list. They are development dependencies of this package.

Any license identifier from the license list is a valid license expression:

```
```javascript  
require('spdx-license-ids').forEach(function (id) {
 assert.deepEqual(parse(id), {license: id})
})
```
```

So is any license identifier `WITH` a standardized license exception:

```
```javascript  
require('spdx-license-ids').forEach(function (id) {
 require('spdx-exceptions').forEach(function (e) {
 assert.deepEqual(
 parse(id + ' WITH ' + e),
 {license: id, exception: e}
)
 })
})
```
```

2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```
```javascript  
assert.deepEqual(
 // Licensed under a combination of the MIT License and a combination
 // of LGPL 2.1 (or a later version) and the Three-Clause BSD License.
 parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),
 {license: 'MIT AND (LGPL-2.1+ AND BSD-3-Clause)'}
)
```

```
{
 left: {license: 'MIT'},
 conjunction: 'and',
 right: {
 left: {license: 'LGPL-2.1', plus: true},
 conjunction: 'and',
 right: {license: 'BSD-3-Clause'}
 }
}
)
...

```

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// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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## Use as a JavaScript Library

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### Installation

#### Package managers

##### [npm](https://www.npmjs.com/)

```
```sh
npm install spdx-license-ids
```
```

##### [bower](http://bower.io/)

```
```sh
bower install spdx-license-ids
```
```

##### [Duo](http://duojs.org/)

```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```
```

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```
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var correct = require('spdx-correct');
var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)
````
```

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## 1.184 x-text 0.13.0

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# 1.186 klauspost-compress 1.17.0

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// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.3 of the spec.

type OtherLicense struct {

// 10.1: License Identifier: "LicenseRef-[idstring]"

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LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text

// Cardinality: conditional (mandatory, one) if there is a

// License Identifier assigned

ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"

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LicenseName string `json:"name,omitempty"`

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LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//

10.5: License Comment

// Cardinality: optional, one

LicenseComment string `json:"comment,omitempty"`

}

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type OtherLicense struct {

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LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text

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ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"

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LicenseName string `json:"name,omitempty"`

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LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

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LicenseComment string `json:"comment,omitempty"`

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

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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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## 1.188 zap 1.26.0

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## 1.189 grpc-gateway 2.18.0

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# 1.190 kubernetes-apimachinery 0.28.2

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# 1.193 kubernetes-api 0.28.2

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
This source code was written by the Go contributors.
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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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# 1.195 kubernetes-api 0.28.2

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# 1.196 google-uuid 1.3.1

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bmatsuo

shawnp

theory  
jboverfelt  
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## 1.197 kubernetes-apimachinery 0.28.2

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# 1.200 knadh-koanf-maps 0.1.1

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## 1.210 go-restful 3.10.2

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# 1.215 googleapis-enterprise-certificate-proxy

## 0.3.1

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## 1.216 x-crypto 0.14.0

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## 1.218 mostynb-go-grpc-compression 1.2.1

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## 1.220 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 0.42.0

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## 1.222 otel-exporters-otlp-otlptrace-otlptracehttp 1.19.0

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# 1.231 contrib-propagators-b3 1.19.0

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## 0.42.0

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# 1.233 nomad 0.0.0-20230718173136-3a687930bd3e

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---

layout: docs

page\_title: 'Commands: license'

description: |

The license command is used to interact with an enterprise license.

---

# Command: license

~> License commands are only available with Nomad Enterprise.

The `license` commands can be used to retrieve license information from a server, or inspect and validate a license.

Click [\[here\]](https://www.hashicorp.com/products/nomad/trial)(<https://www.hashicorp.com/products/nomad/trial>) to get a trial license for Nomad Enterprise.

## Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following subcommands are available:

- [`license get`][`get`] - Get the current license from a server
- [`license inspect`][`inspect`] - Inspect and validate a license

[`get`]: /nomad/docs/commands/license/get 'Get the current license from a server'

[`inspect`]: /nomad/docs/commands/license/inspect 'Inspect and validate a license'

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---

layout: docs

page\_title: Nomad Enterprise Licensing

description: >-

Learn about how Nomad Enterprise licensing works.

---

## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in the cluster must have a license to start. Nomad Enterprise can be downloaded from the [releases site].

Click [here](<https://www.hashicorp.com/go/nomad-enterprise>) to set up a demo of Nomad Enterprise or [here](</nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license>) for instructions on how to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster, due to raft entries

relating to Enterprise features not being parseable by open source Nomad.

## ## Expiring Licenses

Nomad Enterprise licenses have an expiration time. You can read and validate the license on a running server, on disk, or in your environment with the `[nomad license` commands](/nomad/docs/commands/license)`.

Before upgrading Nomad or replacing your license with a new one, you should always run `[nomad license inspect`](/nomad/docs/commands/license/inspect)` to ensure the license is valid with your server binary.

As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching expiration. Below shows log excerpts of the warnings.

```
...
2021-03-29T15:02:28.100-0400 [WARN] nomad.licensing: license expiring: time_left=5m0s
2021-03-29T15:03:28.103-0400 [WARN] nomad.licensing: license expiring: time_left=4m0s
2021-03-29T15:04:28.106-0400 [WARN] nomad.licensing: license expiring: time_left=3m0s
2021-03-29T15:05:28.109-0400 [WARN] nomad.licensing: license expiring: time_left=2m0s
2021-03-29T15:06:28.112-0400 [WARN] nomad.licensing: license expiring: time_left=1m0s
2021-03-29T15:07:28.114-0400
[WARN] nomad.licensing: license expiring: time_left=0s
2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
...
```

When the license expires, enterprise functionality will become limited. Only read operations on enterprise endpoints will be supported, and write operations will return an error.

## ## Configuring the License

See the server `[license configuration]` reference documentation on all the options to set an enterprise license. Nomad will load the license file from disk or environment when it starts.

~> **Note:** An Enterprise license `[tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license)` is available to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

```
...
```

```
NOMAD_LICENSE=misconfigured nomad agent -dev
```

```
==>
```

```
No configuration files loaded
```

```
==> Starting Nomad agent...
```

```
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but the license is invalid: error decoding version: expected integer
```

```
...
```

See the [License commands](/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

```
[releases site]: https://releases.hashicorp.com/nomad
```

```
[license configuration]: /nomad/docs/configuration/server#license_path
```

```
[license endpoint]: /nomad/api-docs/operator/license#updating-the-nomad-enterprise-license
```

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: BUSL-1.1
```

```
package command
```

```
import (
```

```
 "fmt"
```

```
 "strings"
```

```
 "time"
```

```
 "github.com/hashicorp/nomad/api"
```

```
 "github.com/mitchellh/cli"
```

```
)
```

```
var _ cli.Command = &LicenseCommand{ }
```

```
type LicenseCommand struct {
```

```
 Meta
```

```
}
```

```
func (l *LicenseCommand) Help() string {
```

```
 helpText := `
```

```
Usage: nomad license <subcommand> [options] [args]
```

This command has subcommands for managing the Nomad Enterprise license.

For more detailed examples see:

<https://www.nomadproject.io/docs/commands/license/>

Retrieve the server's license:

```
$ nomad license get
```

```
`
```

```
return strings.TrimSpace(helpText)
```

```

}

func (l *LicenseCommand) Synopsis() string {
 return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
 return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
 now := time.Now()
 expired := resp.License.ExpirationTime.Before(now)
 terminated
 := resp.License.TerminationTime.Before(now)
 outputLicenseInfo(ui, resp.License, expired, terminated)
 if expired {
 return 1
 }
 return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired, terminated bool) {
 expStr := ""
 if expired {
 expStr = fmt.Sprintf("Expired At%s", lic.ExpirationTime.String())
 } else {
 expStr = fmt.Sprintf("Expires At%s", lic.ExpirationTime.String())
 }
 termStr := ""
 if terminated {
 termStr = fmt.Sprintf("Terminated At%s", lic.TerminationTime.String())
 } else {
 termStr = fmt.Sprintf("Terminates At%s", lic.TerminationTime.String())
 }

 validity := "valid"
 if expired {
 validity = "expired!"
 }

 output := []string{
 fmt.Sprintf("Product%s", lic.Product),
 fmt.Sprintf("License Status%s", validity),
 fmt.Sprintf("License ID%s", lic.LicenseID),
 fmt.Sprintf("Customer ID%s", lic.CustomerID),
 fmt.Sprintf("Issued At%s", lic.IssueTime),
 }
}

```

```

expStr,
termStr,
fmt.Sprintf("Datacenter|%s", lic.InstallationID),
}
ui.Output(formatKV(output))

if
len(lic.Modules) > 0 {
ui.Output("Modules:")
for _, mod := range lic.Modules {
ui.Output(fmt.Sprintf("\t%s", mod))
}
}
if len(lic.Features) > 0 {
ui.Output("Licensed Features:")
for _, f := range lic.Features {
ui.Output(fmt.Sprintf("\t%s", f))
}
}
}
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//go:build !ent

package nomad

func (c *LicenseConfig) Validate() error {
return nil
}

layout: api
page_title: License - Operator - HTTP API
description: |-
The /operator/license endpoints allow for retrieving the Nomad Enterprise License.

License Operator HTTP API

<EnterpriseAlert />

Get Nomad Enterprise License Info

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/v1/operator/license`	`application/json`

```

The table below shows this endpoint's support for [blocking queries](/nomad/api-docs#blocking-queries) and [required ACLs](/nomad/api-docs#acls).

| Blocking Queries | ACL Required  |
|------------------|---------------|
| NO               | operator:read |

### ### Sample Request

```
```shell-session
$ curl \
  https://localhost:4646/v1/operator/license
```
```

### ### Sample Response

```
```json
{
  "KnownLeader": false,
  "LastContact": 0,
  "LastIndex": 0,
  "License": {
    "CustomerID": "customer name",
    "ExpirationTime":
      "2020-06-01T14:50:16.581304556-04:00",
    "Features": [
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Redundancy Zones",
      "Namespaces",
      "Resource Quotas",
      "Preemption",
      "Audit Logging",
      "Setinel Policies"
    ],
    "Flags": {
      "modules": ["governance-policy"]
    },
    "InstallationID": "*",
    "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
    "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
    "Modules": ["governance-policy"],
    "Product": "nomad",
    "StartTime": "2020-06-01T08:50:16.581304556-04:00",
    "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
  },
}
```

```

"RequestTime": 0
}
...

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package command

import (
    "fmt"

    "github.com/hashicorp/nomad/api"
    "github.com/posener/complete"
)

type LicenseGetCommand struct {
    Meta
}

func (c *LicenseGetCommand) Help() string {
    helpText := `
Usage: nomad license get [options]

Gets the license loaded by the server. The command is not forwarded to the
Nomad leader, and will return the license from the specific server being
contacted.

When ACLs are enabled, this command requires a token with the
'operator:read' capability.

General Options:

` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

    return helpText
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
    return complete.Flags{}
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
    return complete.PredictNothing
}

func (c *LicenseGetCommand) Synopsis() string {
    return "Retrieve the current Nomad Enterprise License"
}

```

```

func (c *LicenseGetCommand)
Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
flags.Usage = func() { c.Ui.Output(c.Help()) }

if err := flags.Parse(args); err != nil {
c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
return 1
}

client, err := c.Meta.Client()
if err != nil {
c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
return 1
}

resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{ })
if err != nil {
c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
return 1
}

return OutputLicenseReply(c.Ui, resp)
}

```

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package nomad

import (

```

"slices"
"time"
)

// LicenseConfig allows for tunable licensing config
// primarily used for enterprise testing
type LicenseConfig struct {
    // BuildDate is the time of the git commit used to build the program.
    BuildDate time.Time

    // LicenseEnvBytes is the license bytes to use for the server's license
    LicenseEnvBytes string

    // LicensePath is the path to use for the server's license
    LicensePath string

    // AdditionalPubKeys is a set of public keys to
    AdditionalPubKeys []string
}

func (c *LicenseConfig) Copy() *LicenseConfig {
    if c == nil {
        return nil
    }

    nc := *c
    nc.AdditionalPubKeys = slices.Clone(c.AdditionalPubKeys)
    return &nc
}

---
layout: docs
page_title: Nomad Enterprise License FAQ
description: >-
    Frequently Asked Questions pertaining to Nomad Enterprise Licensing.
---

```

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.6.0+ent.

For license-related FAQ for earlier versions, please refer to earlier versions of this document using the version drop-down on this page, e.g. [v1.5.x](/nomad/docs/v1.5.x/enterprise/license/faq).

Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.6.0, license expiration is different.

For trial licenses, the behavior remains the same. Enterprise features will stop working

when the license expires, and a server can not start with an expired license.

For new "non-terminating" contract licenses, instead of expiration being compared to the current time, expiration time is compared to the build date of the Nomad binary, which you can find in the output of the `[nomad version](/nomad/docs/commands/version)` command.

The practical result is that newer contract licenses will work in perpetuity for any v1.6.0+ version of Nomad built prior to the expiration time of the license. No features will stop working, and server agents can be restarted safely.

However, if you try to upgrade to a newer binary past license expiration, the server will not start. To proactively avoid that, you can test a new binary with your license using the new `[nomad license inspect]` `[license inspect]` command before trying to upgrade your servers.

Q: What resources are available?

The list below is a great starting point for learning more about license usage in general.

- [\[v1.6.0 Upgrade Guide\]](#)(/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate)
- [\[Nomad License Documentation\]](#)(/nomad/docs/enterprise/license)
- [\[License configuration values documentation\]](#)(/nomad/docs/configuration/server#license_path)
- [\[Install a HashiCorp Enterprise License Tutorial\]](#)(/nomad/tutorials/enterprise/hashicorp-enterprise-license)

##

Q: Does this affect older versions of Nomad?

This change only affects Nomad Enterprise version v1.6.0+ent and later.

Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present. Nomad agents running with the `-dev`` flag will also need a license.

Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you have an expired license that has not yet become fully nonfunctional (i.e. it is in grace period between `ExpirationTime` and `TerminationTime`), then a Nomad server will not be able to start using a new v1.6.0+ binary.

Before shutting down a server agent to replace it with a new version, be sure to run `[nomad license inspect]` `[license inspect]` with the new binary.

Q: How can a user get their existing 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.

You can use ``nomad license get`` to retrieve information about the license, but not the license itself.

Q: What happens when a license expires?

All features will continue to work until you attempt to upgrade Nomad that is newer than your license expiration time.

In that case, the server agent will fail to start, and you'll need to roll back to the previous working version and acquire a new license to use with the newer Nomad version before attempting the upgrade again.

Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

Q: Where can users get a trial license for Nomad?

Visit <https://nomadproject.io/trial> for a free 30-day trial license.

Q: When a Nomad client agent restarts, will it still need a license file?

Every time ``nomad agent`` runs as a server (or in ``-dev``), it requires a license.

Q: May I downgrade Nomad Enterprise from v1.6.0 to an earlier version?

Yes, if you upgrade a server to 1.6.0+ but it fails to start due to license expiration, you can roll back to a previous working version with the old expiration logic.

If a server fails to start for any other reason aside from license expiration, roll back to a previous version is not supported due to the Nomad state store not having forward compatibility, and may result in a crash loop.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license).

```
[license inspect]: /nomad/docs/commands/license/inspect
```

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: BUSL-1.1
```

```
package command
```

```
import (  
    "testing"  
    "time"
```

```

"github.com/hashicorp/nomad/api"
"github.com/hashicorp/nomad/ci"
"github.com/mitchellh/cli"
"github.com/stretchr/testify/require"
)

var _ cli.Command = &LicenseGetCommand{ }

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
    ci.Parallel(t)

    srv, _, url := testServer(t, false, nil)
    defer srv.Shutdown()

    ui := cli.NewMockUi()
    cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

    code := cmd.Run([]string{"-address=" + url})
    if srv.Enterprise {
        require.Equal(t, 0, code)
    } else {
        require.Equal(t, 1, code)
        require.Contains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
    }
}

func TestOutputLicenseReply(t *testing.T) {
    ci.Parallel(t)

    now := time.Now()
    lic := &api.LicenseReply{
        License: &api.License{
            LicenseID:    "licenseID",
            CustomerID:  "customerID",
            InstallationID: "*",
            IssueTime:    now,
            StartTime:   now,
            ExpirationTime:
                now.Add(1 * time.Hour),
            TerminationTime: now,
            Product:     "nomad",
            Flags: map[string]interface{}{
                "": nil,
            },
        },
    }

    ui := cli.NewMockUi()

```

```
require.Equal(t, 0, OutputLicenseReply(ui, lic))
```

```
out := ui.OutputWriter.String()
require.Contains(t, out, "Customer ID")
require.Contains(t, out, "License ID")
}
```

layout: docs

page_title: 'Commands: license inspect'

description: |

The license inspect command is used to inspect and validate an enterprise license.

Command: license inspect

<EnterpriseAlert>

This command is only present in Nomad Enterprise.

</EnterpriseAlert>

The `license inspect` command is used to inspect and validate a Nomad Enterprise license. It will read the license from a file on disk or an environment variable and exit non-0 if the license is not valid with the Nomad binary.

This command should always be run with the new binary before upgrading Nomad on a server, as the server agent will not start with an invalid license.

Usage

```plaintext

```
nomad license inspect [/path/to/license.hcllic]
```

```

Examples

With a license file argument:

```shell-session

```
$ nomad license inspect /path/to/nomad/license.hcllic
```

```
Source: /path/to/nomad/license.hcllic
```

```
Product: nomad
```

```
License ID: aaaaaaaaa-aaaa-aaaa-aaaa-aaaaaaaaaaaaa
```

```
Customer ID: bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb
```

```
Installation
```

```
ID: *
```

```
Issue Time: 2021-12-01 17:49:23.021041516 +0000 UTC
```

```
Start Time: 2021-12-01 00:00:00 +0000 UTC
```

```
Expiration Time: 2023-12-01 00:00:00 +0000 UTC
```

Termination Time: 2024-01-01 00:00:00 +0000 UTC

Build Date: 2000-01-01 00:00:00 +0000 UTC

Flags: {

```
"modules": [
 "multicluster-and-efficiency",
 "governance-policy"
]
}
```

License is valid

...

With a license file environment variable:

```
```shell-session
```

```
$ export NOMAD_LICENSE_PATH=/path/to/nomad/license.hcl
```

```
$ nomad license inspect
```

```
Source: /path/to/nomad/license.hcl (path from the NOMAD_LICENSE_PATH environment variable)
```

```
Product: nomad
```

```
.....
```

```
License is valid
```

```
```
```

With a license string environment variable:

```
```shell-session
```

```
$ export NOMAD_LICENSE=full-license-text-string
```

```
$ nomad license inspect
```

```
Source: NOMAD_LICENSE environment variable
```

```
.....
```

```
License is valid
```

```
```
```

## Example error

```
```shell-session
```

```
$ nomad license inspect license.hcl
```

```
...
```

```
Validation Errors:
```

```
* license is no longer valid
```

```
* license expiration
```

```
date is before version build date: expiration=2023-01-13T23:59:59Z build=2023-03-17T00:00:00Z
```

```
```
```

```

```

```
layout: docs
```

```
page_title: 'Commands: license get'
```

```
description: |
```

```
The license get command is used to get the current license.
```

---

# Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are new in Nomad 0.12.0 and are only available with Nomad Enterprise.

## Usage

```
```plaintext
nomad license get [options]
```
```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

## General Options

@include 'general\_options\_no\_namespace.mdx'

## Examples

```
```shell-session
$ nomad license get
```

```
Product      = nomad
License Status = valid
License ID    = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID   = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At     = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At    = 2020-05-09 00:00:00 +0000 UTC
Terminates At = 2020-05-10
              00:00:00 +0000 UTC
Datacenter    = *
Modules:
  governance-policy
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Preemption
  Audit Logging
```



```
    Sentinel Policies
    ...

    ``shell-session
    $ nomad license get -stale=true

    Product      = nomad
    License Status = valid
    License ID    = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
    Customer ID   = 350356e5-8aec-bdf4-8510-b205079ccad2
    Issued At     = 2021-03-31 14:21:16.969610774 +0000 UTC
    Expires At    = 2022-04-01 00:00:00 +0000 UTC
    Terminates At = 2022-04-04 00:00:00 +0000 UTC
    Datacenter    = *
    Modules:
      governance-policy
      multicluster-and-efficiency
    Licensed Features:
      Automated Upgrades
      Enhanced Read Scalability
      Redundancy Zones
      Namespaces
      Resource Quotas
      Audit Logging
      Sentinel Policies
      Multiregion Deployments
      Automated Backups

    Multi-Vault Namespaces
    ...
```

1.234 open-telemetry-opentelemetry-collector-contrib-pkg-otl 0.87.0

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1.235 collector-config-configauth 0.87.0

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1.239 open-telemetry-opentelemetry-collector-contrib-internal-filter 0.87.0

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1.240 knadh-koanf-providers-confmap 0.1.0

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1.241 collector-extension-auth 0.87.0

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1.242 collector-config-configcompression

0.87.0

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1.244 collector-consumer 0.87.0

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1.247 open-telemetry-opentelemetry-collector-contrib-pkg-pdatautil 0.87.0

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0.87.0

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1.251 collector-receiver 0.87.0

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1.252 cors 1.10.1

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1.255 open-telemetry-opentelemetry-collector-contrib-processor-redactionprocessor 0.87.0

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1.256 antonmedv-expr 1.15.3

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1.257 collector-processor 0.87.0

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1.258 collector-featuregate 1.0.0-rcv0016

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1.259 collector-exporter-loggingexporter

0.87.0

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1.265 collector-config-internal 0.87.0

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1.266 collector-processor-memorylimiterprocessor 0.87.0

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1.267 contrib-instrumentation-net-http-otelhttp 0.45.0

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1.272 leoluk-perflib_exporter 0.2.1

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1.273 collector-processor-batchprocessor 0.87.0

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1.274 contrib-instrumentation- google.golang.org-grpc-otelgrpc 0.45.0

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1.275 collector-service 0.87.0

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1.277 prometheus-client 0.5.0

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Metadata-Version: 1.1

Name: prometheus-client

Version: 0.5.0

Summary: Python client for the Prometheus monitoring system.

Home-page: https://github.com/prometheus/client_python

Author: Brian Brazil

Author-email: brian.brazil@robustperception.io

License: Apache Software License 2.0

Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.

Keywords: prometheus monitoring instrumentation client

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language ::
Python :: 3.4
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Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: System :: Monitoring
Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):

```
* /opt/cola/permits/1826774189_1697799990.6560163/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client.egg-info/PKG-INFO
```

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```
* /opt/cola/permits/1826774189_1697799990.6560163/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client/decorator.py
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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1.278 alecthomas-participle 2.1.0

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1.279 collector-component 0.87.0

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1.280 collector-config-confignet 0.87.0

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1.281 collector-config-confighttp 0.87.0

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1.286 x-oauth2 0.13.0

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1.287 cors 1.10.1

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1.288 ..-..-patchedcomponents-processor-transformprocessor 23.10.0

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1.289 consul v1.25.1

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```
.consul-intention-permission-header-list {
  dt::before {
    @extend %with-glyph-icon;
    content: 'H';
  }
}
```

layout: api

page_title: License - Operator - HTTP API

description: |-

The `/operator/license` endpoint allows for retrieving the Consul Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](<https://www.hashicorp.com/products/consul/>) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
GET	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
NO	all	none	none

The corresponding CLI command is [consul license get](/consul/commands/license#get).

Query Parameters

-dc (string: "") - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request.

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](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
NO	none	none	operator:write

The corresponding CLI command is [consul license put](/consul/commands/license#put).

Query Parameters

-dc (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request.

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](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
and
[required ACLs](/consul/api-docs/api-structure#authentication).

```
Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`
```

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.`

Sample Request

```
```shell-session
$ curl \
 --request DELETE \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",

```

```

 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
},
"Warnings": []
}
...
{{!
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}}

```

```

{{#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}}
 {{#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}}

```

```

 </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}}
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: MPL-2.0
 */

.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';
 }
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
 "rules": {
 "policies": {
 "consul-intentions-layer7-0": {
 "permissions": [
 {
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "prefix": "some-path"
 }
 }
 }
],
 },
 },
 {
 "andRules": {
 "rules": [
 {
 "metadata": {
 "filter": "envoy.filters.http.jwt_authn",
 "path": [

```



```

 {"key": "jwt_payload_okta"},
 {"key": "iss"}
],
 "value": {
 "stringMatch": {
 "exact": "mytest.okta-issuer"
 }
 }
},
{
 "metadata": {
 "filter": "envoy.filters.http.jwt_authn",
 "path": [
 {"key": "jwt_payload_okta"},
 {"key": "roles"}
],
 "value": {
 "stringMatch": {
 "exact": "testing"
 }
 }
 }
}
]
}
]
}
],
"principals": [
{
 "authenticated": {
 "principalName": {
 "safeRegex": {
 "googleRe2": {},
 "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
 }
 }
 }
}
]
}
}
}

```

```

}
}
{{!
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}}

```

```

{{#if isVisible}}
<Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
 <A.Title>
 {{t 'routes.dc.nodes.index.agentless.notice.header'}}
 <Hds::Button
 @color='secondary'
 @text='Dismiss notice'
 {{on 'click' this.dismissAgentlessNotice}}
 @icon='x'
 @size='small'
 @isIconOnly={{true}}
 />
 </A.Title>
 <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
 <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
 @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
 @icon='docs-link'
 @iconPosition='trailing' />
</Hds::Alert>
{{/if}}

```

---

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

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.

### ## Overview

Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:

1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:

1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.

1. Update the Consul on Kubernetes helm chart.

### ## 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](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/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 Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

```
<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
```
```

### ## Create Vault Authorization Roles for Consul

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 -f values.yaml
```

```

- Generate Consul client service account name

```

```shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
```

```

## Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to use the enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```

```yaml
global:
  image: hashicorp/consul-enterprise:1.12.0-ent
  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.

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```
{
  "name": "envoy.filters.network.rbac",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
    "rules": {

    },
    "statPrefix": "connect_authz"
  }
}
```

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```
/**
```

```
* Copyright (c) HashiCorp, Inc.
```

```
* SPDX-License-Identifier: MPL-2.0
```

```
*/
```

```
.consul-intention-permission-form {  
  h2 {  
    border-top: 1px solid var(--token-color-foreground-action);  
    @extend %display-400-semibold;  
  }  
  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-view {  
  h2 {  
    @extend %display-400-semibold;  
  }  
}  
{  
  "name": "envoy.filters.http.rbac",  
  "typedConfig": {  
    "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
```

```

"rules": {
  "policies": {
    "consul-intentions-layer7-0": {
      "permissions": [
        {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v1/secret"
                  }
                }
              }
            ],
          },
          {
            "andRules": {
              "rules": [
                {
                  "metadata": {
                    "filter": "envoy.filters.http.jwt_authn",
                    "path": [
                      {"key": "jwt_payload_auth0"},
                      {"key": "iss"}
                    ],
                    "value": {
                      "stringMatch": {
                        "exact": "mytest.auth0-issuer"
                      }
                    }
                  }
                }
              ],
            },
            {
              "metadata": {
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {"key": "jwt_payload_auth0"},
                  {"key": "perms"},
                  {"key": "role"}
                ],
                "value": {
                  "stringMatch": {
                    "exact": "admin"
                  }
                }
              }
            }
          ]
        }
      ]
    }
  }
}

```

```

    }
  }
]
}
},
{
  "andRules": {
    "rules": [
      {
"urlPath": {
  "path": {
    "exact": "/v1/admin"
  }
},
},
{
  "notRule": {
    "urlPath": {
      "path": {
        "exact": "/v1/secret"
      }
    }
  }
}
}
]
}
},
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "googleRe2": {

              },
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      ]
    },
  },
{

```

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](/consul/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](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul, as HCP Consul licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, 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. To point to the file containing the license, in the configuration file, configure the [`license`](/consul/docs/enterprise/configuration#license) path option.

```

```hcl
license {
 path = "<PATH>/<TO>/<FILE>"
}
```

```

1. To point to the file containing the license, in the configuration file, configure the [license_path`]/(consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block]/(consul/docs/nia/configuration#license) instead.**

```

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

```

~> **Note**: the [options to set the license and the order of precedence]/(consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents. Visit the [Enterprise License Tutorial]/(nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually

To update the license when it expires or is near the expiration date and automatic license retrieval is disabled:

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.

License Expiration Handling

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, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will provide notifications in the system logs:

| Time period | Behavior - auto-retrieval enabled (default) | Behavior - auto-retrieval disabled |
|---------------------------|---------------------------------------------|------------------------------------|
| 30 days before expiration | License retrieval attempt every 24-hours | Warning-level log every 24-hours |
| 7 days before expiration | License retrieval attempt every 1 hour | Warning-level log every 1 hour |

| | | |
|---------------------------------------------|-------------------------------------------|-----------------------------------|
| 1 day before expiration | License retrieval attempt every 5 minutes | Warning-level log every 5 minutes |
| 1 hour before expiration | License retrieval attempt every 1 minute | Warning-level log every 1 minute |
| At or after expiration (before termination) | License retrieval attempt every 1 minute | Error-level log every 1 minute |
| At or after termination and exit | Error-level log and exit | |

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

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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}}
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: MPL-2.0
 */
```

```
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  > ul > li {
    @extend %list-row-200;
  }
}
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: MPL-2.0
 */
```

```
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 %display-400-semibold;
}
}
```

```
%license-validity p {
  color: var(--token-color-foreground-faint);
}
}
```

```

%license-validity dl {
  @extend %horizontal-kv-list;
  @extend %body-300-regular;
}
%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: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
  --icon-name: icon-alert-circle;
  --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
  --icon-name: icon-check-circle;
  --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
{
  @extend %panel;
  box-shadow: none;
  padding: var(--padding-y) var(--padding-x);
  width: 40%;
  min-width: 413px;
  margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
  @extend %display-300-semibold;
}
%license-route-learn-more header {
  margin-bottom: 1rem; /* 16px */
}
{
  "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": [
]
}
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: MPL-2.0
 */

```

```

@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;
}
{!!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: MPL-2.0
}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
<A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
<A.Link::Standalone
  @text={{t "components.consul.intention.notice.permissions.footer"}}
  @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
  @icon="docs-link"
  @iconPosition="trailing"
  @size="small"
/>
</Hds::Alert>
{!!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: MPL-2.0
}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>
<A.Title>Intention Custom Resource</A.Title>
<A.Description>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.</A.Description>
<A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
  @text='Learn more about CRDs'
  @icon="docs-link"
  @iconPosition="trailing"
  @size="small" />
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: MPL-2.0
*/

.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;
}
}
{
  "name": "envoy.filters.http.jwt_authn",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
    "providers": {
      "okta": {
        "issuer": "test-issuer",
        "payloadInMetadata": "jwt_payload_okta",
        "remoteJwks": {
          "httpUri": {
            "uri": "https://example-okta.com/.well-known/jwks.json",
            "cluster": "jwks_cluster_okta",
            "timeout": "1s"
          },
        },
        "asyncFetch": {
          "fastListener": true
        }
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {"providerName": "okta"},
            {"allowMissingOrFailed": {}}
          ]
        }
      }
    }
  ]
}

```

```

    }
  }
]
}
}
/*!
* QUnit 2.19.1
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
/*!
* clipboard.js v2.0.8
* https://clipboardjs.com/
*
* Licensed MIT Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

/*! *****
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LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
***** */

/**
 * @license
 * Copyright 2017 Google LLC
 * SPDX-License-Identifier: BSD-3-Clause
 */

/**

```

```
* @license
* Copyright 2019 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/
# Proprietary License
```

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```
/**
```

```
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: MPL-2.0
*/
```

```
.consul-intention-permission-list {
  .detail > div {
    display: flex;
    width: 100%;
  }
  strong {
    margin-right: 8px;
  }
}
{
  "name": "envoy.filters.http.jwt_authn",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
    "providers": {
      "okta": {
        "issuer": "test-issuer",
        "payloadInMetadata": "jwt_payload_okta",
        "remoteJwks": {
          "httpUri": {
            "uri": "https://example-okta.com/.well-known/jwks.json",
            "cluster": "jwks_cluster_okta",
            "timeout": "1s"
          },
        },
        "asyncFetch": {
          "fastListener": true
        }
      }
    },
  },
  "auth0": {
```

```

"issuer": "another-issuer",
"payloadInMetadata": "jwt_payload_auth0",
"remoteJwks": {
  "httpUri": {
    "uri": "https://example-auth0.com/.well-known/jwks.json",
    "cluster": "jwks_cluster_auth0",
    "timeout": "1s"
  },
  "asyncFetch": {
    "fastListener": true
  }
}
},
"rules": [
  {
    "match": {
      "prefix": "/"
    },
    "requires": {
      "requiresAll": {
        "requirements": [
          {
            "requiresAny": {
              "requirements": [
                {"providerName": "okta"},
                {"allowMissingOrFailed": {}}
              ]
            }
          },
          {
            "requiresAny": {
              "requirements": [
                {"providerName": "auth0"},
                {"allowMissingOrFailed": {}}
              ]
            }
          }
        ]
      }
    }
  }
]
}
}

```

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>
```
```

page_title: Automated license utilization reporting
description: >-

Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support `_air-gapped installations_`, which are systems with no

network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](<https://releases.hashicorp.com/consul/>) page.

Enable automated reporting

Before you enable automated reporting,

make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

...

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
```

```
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO] reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}},"metadata":{}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
...

```

</CodeBlockConfig>

If

your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

...

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
...

```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting

out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically

reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```
```hcl
reporting {
 license {
 enabled = false
 }
}
```
```

When opting out using an environment variable, the system provides a startup message confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```
```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```
```shell-session
$ consul reload
```
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>


```

```json
{
 "payload": {
 "payload_version": "1",
 "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
 "product": "consul",
 "product_version": "1.16.0-dev+ent",
 "export_timestamp":
"2023-05-26T20:09:13.753921087Z",
 "snapshots": [
 {
 "snapshot_version": 1,
 "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
 "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
 "timestamp": "2023-05-26T20:09:13.753513962Z",
 "schema_version": "1.0.0",
 "service": "consul",
 "metrics": {
 "consul.billable.nodes": {
 "key": "consul.billable.nodes",
 "kind": "counter",
 "mode": "write",
 "value": 2
 },
 "consul.billable.service_instances": {
 "key": "consul.billable.service_instances",
 "kind": "counter",
 "mode": "write",
 "value": 2
 }
 }
 }
],
 "metadata": {}
 }
}
```

```

</CodeBlockConfig>

```

{
  Copyright (c) HashiCorp, Inc.
  SPDX-License-Identifier: MPL-2.0
}

```

```

<Route
  @name={{ routeName }}
as |route|>
<DataLoader

```

```

@src={{
  uri '/${partition}/${namespace}/${dc}/license'
  (hash
    partition=route.params.partition
    namespace=route.params.namespace
    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")}}
      <Hds::Toast @color='warning'
        {{ notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{ notification
          sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{ notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/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>
  <div class="flex gap-1.5 flex-col">
    <Hds::Link::Standalone
      @text={{ compute (fn route.t 'documentation.links.license-expiration.text')}}
      @href={{ concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
    <Hds::Link::Standalone
      @text={{ compute (fn route.t 'documentation.links.renewing-license.text')}}
      @href={{ concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
    <Hds::Link::Standalone
      @text={{ compute (fn route.t 'documentation.links.applying-new-license.text')}}
      @href={{ concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
  </div>
</aside>

</section>
</div>
</BlockSlot>
{{/let}}
</DataLoader>
</Route>
/**
* Copyright (c) HashiCorp, Inc.

```

```
* SPDX-License-Identifier: MPL-2.0
```

```
*/
```

```
@import './skin';
```

```
@import './layout';
```

```
{{!
```

```
Copyright (c) HashiCorp, Inc.
```

```
SPDX-License-Identifier: MPL-2.0
```

```
}}
```

```
<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 (includes 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>

<Hds::ButtonSet>
  <Hds::Button
    data-test-add-header
    @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
    @color='primary'
    disabled={{if (not this.headerForm.isDirty)
'disabled'}}
    onclick={{action this.headerForm.submit}}
  />
  <Hds::Button
    @text='Cancel'
    @color='secondary'
    onclick={{action this.headerForm.reset}}
  />
</Hds::ButtonSet>
</fieldset>
</FormGroup>
</div>

```

```

---
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 list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [\[licensing documentation\]\(/consul/docs/enterprise/license/overview\)](/consul/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 [\[ACL Guide\]\(/consul/tutorials/security/access-control-setup-production\)](/consul/tutorials/security/access-control-setup-production) 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.hcltc
```

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.hcltc` (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`(</consul/api-docs/operator/license#updating-the-consul-license>)

This command sets the Consul Enterprise license.

The table below shows this command's [\[required ACLs\]](/consul/api-docs/api-structure#authentication).

Configuration of

[\[blocking queries\]](/consul/api-docs/features/blocking) and [\[agent caching\]](/consul/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`

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

```

...

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

```
## get
```

Corresponding HTTP API Endpoint: `[[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)`

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers will display the outdated license in their GET output.

The table below

shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/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]``

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
```
```

```
#### API Options
```

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

```
## 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`(</consul/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](</consul/api-docs/api-structure#authentication>).

Configuration of

[blocking queries](</consul/api-docs/features/blocking>) and [agent caching](</consul/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]``

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
```
```

API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

```
// Copyright (c) HashiCorp, Inc.
```

```
// SPDX-License-Identifier: MPL-2.0
```

```

package api

import (
    "io"
    "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"`

    // Whether the license will ignore termination
    IgnoreTermination bool `json:"ignore_termination"`

    //
    // 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 := io.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
}
---
layout: docs
page_title: Enterprise License FAQ
description: >-
    Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses
    work, what happens when they expire, and how to get a trial license.
---

# 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](/consul/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](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

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](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

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 and can be restarted after license *expiration* as defined in [expiration_time`](/consul/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`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:

Please contact your support representative for more details on non-terminating licenses.

An expired license will not allow Consul versions released after the expiration date to run.

It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.

Please review the [upgrade requirements](#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?](#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 `retry_join` addresses.
- The 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 `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development 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](https://support.hashicorp.com/hc/en-us) 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](https://support.hashicorp.com/hc/en-us) 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](/consul/docs/enterprise/license/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``](/consul/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](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

1. Follow the

Consul upgrade [documentation](/consul/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](/consul/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](/consul/docs/k8s/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/consul/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](/consul/docs/k8s/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](https://support.hashicorp.com/hc/en-us) (CSM) 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](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/consul/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](https://support.hashicorp.com/hc/en-us) (CSM) 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](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version

of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/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

layout: docs

page_title: Enterprise Licenses

description: >-

Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.

Consul Enterprise License

Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> **Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.

This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.

Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [\[Enterprise License Tutorial\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs\)](#) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.

For server agents this means that they must either have the `[`license_path`](/consul/docs/agent/config/config-files#license_path)`

configuration set or have a license configured in the servers environment with the ``CONSUL_LICENSE`` or ``CONSUL_LICENSE_PATH`` environment variables. Both the configuration

item and the ``CONSUL_LICENSE_PATH`` environment variable point to a file containing the license whereas the ``CONSUL_LICENSE`` environment variable should contain the license as the value. If multiple variables are set, the following order of precedence applies:

1. ``CONSUL_LICENSE`` environment variable
2. ``CONSUL_LICENSE_PATH`` environment variable
3. ``license_path`` configuration item.

Client agents and [\[snapshot agents\]\(/consul/docs/enterprise/backups\)](#)

may also be licensed in the very same manner.

However, to avoid the need to configure the license on many client agents and snapshot agents, those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.

- ****If you used the ``CONSUL_LICENSE`` environment variable****: After updating the environment variable, restart the affected agents.

- ****If you used the ``CONSUL_LICENSE_PATH`` environment variable****: Update the license file first. Then, restart the affected agents.

- ****If you used the ``license_path`` configuration item****: Update the license file first. Then, run `[`consul reload`](/consul/commands/reload)` for the affected agents.

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 `[`retry_join`](/consul/docs/agent/config/config-files#retry_join)` configuration. If ``retry_join`` is unset or no `[`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent)` is set then the client agent will immediately shut itself down.

If all preliminary checks

pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,

the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

/**

* Copyright (c) HashiCorp, Inc.

* SPDX-License-Identifier: MPL-2.0

*/

```
.agentless-node-notice .hds-alert__title {  
  display: flex;  
  justify-content: space-between;  
}
```

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SPDX-License-Identifier: MPL-2.0

This workflow checks that the BUSL license is not mentioned anywhere in
a PR targeting a release that should maintain the MPL-2.0 license.

name: License Checker

on:

pull_request:

types: [opened, synchronize]

branches:

- release/1.14.*

- release/1.15.*

- release/1.16.*

jobs:

checks that the diff does not contain any reference to

the BUSL license and thus retains the MPL-2.0 license


```

license-check:
  runs-on: ubuntu-latest
  steps:
    - uses: actions/checkout@c85c95e3d7251135ab7dc9ce3241c5835cc595a9 # v3.5.3
      with:
        ref: ${{ github.event.pull_request.head.sha }}
        fetch-depth: 0 # by default the checkout action doesn't checkout all branches
    - name: Check for BUSL text in diff
      run: ./github/scripts/license_checker.sh
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```

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```

/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: MPL-2.0
 */

.consul-intention-permission-header-list {
  max-height: 200px;
  overflow: auto;
}
{!!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: MPL-2.0
}}

```

```

<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>

1.290 google-cloud-go v0.110.2

1.290.1 Available under license :

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (

"context"

compute "cloud.google.com/go/compute/apiv1"

computepb "cloud.google.com/go/compute/apiv1/computepb"

"google.golang.org/api/iterator"

)

func ExampleNewLicensesRESTClient() {

ctx := context.Background()

// This snippet has been automatically generated and should be regarded as a code template only.

// It will

require modifications to work:

// - It may require correct/in-range values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

c, err := compute.NewLicensesRESTClient(ctx)

if err != nil {

// TODO: Handle error.

}

defer c.Close()

// TODO: Use client.

_ = c

}


```

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,

```

```

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

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
// only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
break
}
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range
values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown
in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

```

```

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
return &LicenseCodesCallOptions{
Get: []gax.CallOption{
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
TestIamPermissions: []gax.CallOption{ },
}
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection()
*grpc.ClientConn
Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
// The internal transport-dependent client.
internalClient internalLicenseCodesClient

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
return c.internalClient.Close()
}

```

```

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

//
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

```

```

}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
//
The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo
sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
}

```



```

return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions
to read the License Code. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown:
true}
resp := &computepb.LicenseCode{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

```

```

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

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

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

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c
    *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
    *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
    append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes

```

```

tIAMPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

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

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

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

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

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2023 Google LLC
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// https://www.apache.org/licenses/LICENSE-2.0

```

```

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
// Copyright 2023 Google LLC
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// See the License for the specific language governing permissions and  
// limitations under the License.
```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "io/ioutil"  
    "math"  
    "net/http"  
    "net/url"  
    "time"  
  
    computepb "cloud.google.com/go/compute/apiv1/computepb"  
    gax "github.com/googleapis/gax-go/v2"  
    "google.golang.org/api/googleapi"  
    "google.golang.org/api/iterator"  
    "google.golang.org/api/option"  
    "google.golang.org/api/option/internaloption"  
    httptransport  
    "google.golang.org/api/transport/http"  
    "google.golang.org/grpc"  
    "google.golang.org/grpc/metadata"  
    "google.golang.org/protobuf/encoding/protojson"  
    "google.golang.org/protobuf/proto"  
)
```

```
var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {  
    Delete      []gax.CallOption  
    Get        []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert     []gax.CallOption  
    List      []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption  
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{
```

```

Delete: []gax.CallOption{ },
Get: []gax.CallOption{
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
GetIamPolicy:
[]gax.CallOption{
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
Insert: []gax.CallOption{ },
List: []gax.CallOption{
  gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
      Initial: 100 * time.Millisecond,
      Max:     60000 * time.Millisecond,
      Multiplier: 1.30,
    }),
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
},
SetIamPolicy: []gax.CallOption{ },
TestIamPermissions: []gax.CallOption{ },
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```

type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Delete(context.Context,

```

```

*computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct

```
{
```

// The internal transport-dependent client.

```
internalClient internalLicensesClient
```

// The call options for this service.

```
CallOptions *LicensesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicensesClient) Close() error {
```

```
    return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
    c.internalClient.setGoogleClientInfo(keyval...)
```

```
}
```

// Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```
func (c *LicensesClient) Connection() *grpc.ClientConn {
```

```
    return c.internalClient.Connection()
```

```
}
```



```

// Delete deletes the specified license.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption)
(*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context,
    req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

```

```

intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx,
    req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c
    := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),

```

```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written
clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "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: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

```

```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context,
req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e
:= gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

buf, err := ioutil.ReadAll(httpRsp.Body)

```

```

if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := 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 := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption)
(*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }
}

```

```

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

return nil
}, opts...)
if e != nil {
return nil, e

```

```

}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx
context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial:
true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

```



```

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

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

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

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

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List

retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {

```

```

    req.PageToken = proto.String(pageToken)
}
if
pageSize > math.MaxInt32 {
    req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers
from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

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

```

```

    return err
}
defer httpRsp.Body.Close()

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

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

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

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error)
{
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}

```

```

body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path
+= fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header
= headers

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

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

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

```

```

    }

    if err := unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return
        nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    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 := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
items    []*computepb.License
pageInfo *iterator.PageInfo
nextFunc func() error

// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{ }

// InternalFetch is for use by the Google Cloud Libraries

```

```

only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
var item *computepb.License
if err := it.nextFunc(); err != nil {
return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int
{
return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}

```

1.291 nomad v0.0.0-20230718173136-3a687930bd3e

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1.294 go-multierror 1.1.1

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1.295 pflag 1.0.5

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1.296 go-connections 0.4.0

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1.297 goprotobuf 1.5.3

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