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1.10 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.11 spf13-pflag 1.0.5

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1.12 afero 1.0.5

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1.13 go-jmespath 0.4.0

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1.14 kylelemons-godebug 1.1.0

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1.15 errors 0.9.1

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1.20 golang-snappy 0.0.4

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1.21 dennwc-varint 1.0.0

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1.22 leodido-ragel-machinery 0.0.0-

20181214104525-299bdde78165

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1.23 easyjson 0.7.7

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1.24 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.25 pkg-browser 0.0.0-20210911075715-681adbf594b8

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1.26 json-iterator-go 1.1.12

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1.27 modern-go-reflect2 1.0.2

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1.28 go-difflib 1.0.1-0.20181226105442-5d4384ee4fb2

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1.29 prometheus-common-sig 0.1.0

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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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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.35 go-immutable-radix 1.3.1

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1.60 go-units 0.5.0

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1.61 go-zookeeper-zk 1.0.3

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1.62 armon-go-metrics 0.4.1

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1.77 go-units 0.5.0

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1.78 go-zookeeper v1.0.3

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1.79 easyjson 0.7.7

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1.80 lumberjack 2.2.1

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1.81 gogo-protobuf 1.3.2

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1.82 hashicorp-go-cleanhttp 0.5.2

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1.83 inconstreveable-mousetrap 1.1.0

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1.84 go-ole-go-ole 1.2.6

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1.86 logfmt 0.6.0

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1.88 go-restful 3.10.2

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1.89 go-hclog 1.5.0

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1.90 color 1.15.0

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1.91 azure-azure-sdk-for-go-sdk-internal 1.3.0

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1.92 go.uber.org/atomi 1.11.0

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1.94 docker-distribution 2.8.2+incompatible

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1.98 mattn-go-isatty 0.0.19

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1.100 testify 1.8.4

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1.101 yusufpapurcu-wmi 1.2.3

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1.102 oklog-ulid 2.1.0

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1.103 mergo 0.3.16

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

fields:

site: string

author: root

1.104 numcpus 0.6.1

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1.105 go-retryablehttp 0.7.4

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

1.108 testify 1.8.4

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1.114 proto-otlp 1.0.0

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1.115 gopkg.in-yaml 3.0.1

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1.116 yaml 1.3.0

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1.117 protobuf 1.31.0

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

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1.119 go-uber-org-multierr 1.11.0

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1.120 structured-merge-diff 4.3.0

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1.123 go-sysconf 0.3.12

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1.124 go-control-plane 0.11.1

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1.125 hashicorp-cronexpr 1.1.2

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1.126 protoc-gen-validate 1.0.2

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1.128 iancoleman-strcase 0.3.0

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1.129 knadh-koanf 2.0.1

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1.130 mitchellh-mapstructure 1.5.1-

0.20220423185008-bf980b35cac4

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1.131 go-compute-metadata 0.2.4-0.20230617002413-005d2dfb6b68

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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"
)

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

    // TODO: Use client.
    _ = c
}

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

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

func ExampleLicenseCodesClient_TestIamPermissions() {

```



```

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

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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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/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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
"bytes"
"context"
"fmt"
"io/ioutil"
"math"
"net/http"
"net/url"

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

```

```

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, "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 *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

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

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

        buf, err := ioutil.ReadAll(httpResp.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...)
    unmarshalOptions := 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...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```



```

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

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

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

if err := 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 := 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 := 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 := 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...)
    unmarshalOptions := 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
}

```

1.132 gonum-matrix v0.14.0

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1.134 gonum-blas v0.14.0

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1.135 gonum-lapack v0.14.0

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1.136 mitchellh-mapstructure 1.5.1-0.20220423185008-bf980b35cac4

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1.137 gax-go 2.12.0

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1.138 utils 0.0.0-20230711102312-30195339c3c7

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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)
}
// 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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```

Parameters

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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 [\[Enterprise License Tutorial\]\(/nomad/tutorials/enterprise/hashicorp-enterprise-license\)](/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.hcllic
$ nomad license inspect
Source: /path/to/nomad/license.hcllic (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.hclic
...
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

...

## 1.139 azuread-microsoft-authentication-library-for-go 1.1.1

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## 1.140 google-s2a-go 0.1.7

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## 1.141 zap 1.26.0

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## 1.142 kube-openapi 0.0.0-20230717233707-2695361300d9

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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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visible at https://tip.golang.org/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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# 1.143 scaleway-sdk-go 1.0.0-beta.21

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## 1.144 knadh-koanf-maps 0.1.1

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## 1.145 opencontainers-image-spec 1.1.0-rc5

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

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# 1.148 gofuzz 1.2.0

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## 1.154 prometheus-common 0.45.0

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## 1.165 google-go-cmp 0.6.0

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// SPDX Document for version 2.3 of the spec.

type OtherLicense struct {

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

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    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"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseName string `json:"name,omitempty"`

    // 10.4: License Cross Reference

    // Cardinality: conditional (optional, one or many) if license

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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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// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.2 of the spec.

type OtherLicense struct {

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

// Cardinality: conditional (mandatory, one) if license is not

// on SPDX License List

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"

// Cardinality: conditional (mandatory, one) if license is not

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LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference

// Cardinality: conditional (optional, one or many) if license

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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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[localtime.go](https://github.com/pelletier/go-toml), [localtime\\_test.go](https://github.com/pelletier/go-toml):

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

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

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## 1.172 x-text 0.14.0

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## 1.173 logr 1.3.0

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# 1.175 googleapis-enterprise-certificate-proxy

## 0.3.2

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# 1.176 google-uuid 1.4.0

## 1.176.1 Available under license :

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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## 1.177 x-text 0.14.0

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# 1.178 genproto-googleapis-api 0.0.0-20231106174013-bbf56f31fb17

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# 1.179 ovh-go-ovh 1.4.3

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# 1.180 gophercloud 1.7.0

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Step 5: Writing the Code

=====

At this point, you should have:

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

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

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

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

Types of Pull Requests

-----

The amount of changes you plan to make will determine how much code you should

submit as Pull Requests.

###

#### A Single Bug Fix

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

### Adding a Single Field

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

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

### Adding a Single API Call

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

### Adding a Suite of API Calls

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

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

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

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

### Adding an Entire OpenStack Project

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

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

## What to Include in a Pull Request

-----

Each Pull Request should contain the following:

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

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

### ### Unit Tests

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

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

### ### Acceptance Tests

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

### ### Documentation

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

## Dealing with Related Pull Requests

-----

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

There are two methods of handling this:



### ### Create Independent Pull Requests

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

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

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

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

Advantages of this Method:

- \* Pull Requests can be merged in any order
- \* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

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

### ### Create a Chain of Pull Requests

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

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

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
```

```
$ git add .
$ git commit -m "Implementing Regions Create"

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

Advantages of this Method:

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

Disadvantages of this Method:

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

The choice of method is up to you.

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

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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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)
}

```

1.181 azure-azure-sdk-for-go-sdk- resourcemanager-network-armnetwork 2.2.1

1.181.1 Available under license :

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1.182 godo 1.104.1

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1.183 linode-linodego 1.23.0

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1.184 hetznercloud-hcloud-go 2.4.0

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1.185 ionos-cloud-sdk-go 6.1.9

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1.186 logr 1.3.0

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Package: logr

Title: Creates Log Files

Version: 1.3.5

Authors@R: c(

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

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,  
  covr
```

Imports: withr,

```
  utils,  
  common
```

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.2.3

Found in path(s):

```
* /opt/cola/permits/1845398852_1699958291.446268/0/logr-master-1-zip/logr-master/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/1845398852_1699958291.446268/0/logr-master-1-zip/logr-master/docs/bootstrap-toc.js
```

```
* /opt/cola/permits/1845398852_1699958291.446268/0/logr-master-1-zip/logr-master/docs/bootstrap-toc.css
```

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```
/*
```

```
Source: https://github.com/algolia/docsearch/
```

```
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```

```
*/
```

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* /opt/cola/permits/1845398852_1699958291.446268/0/logr-master-1-zip/logr-master/docs/docsearch.css

1.187 felixge-httpsnoop 1.0.4

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1.188 cobra 1.8.0

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1.189 prometheus 0.48.0

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Protocol Buffers for Go with Gadgets

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Go support for leveled logs, analogous to

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Support for streaming Protocol Buffer messages for the Go language (golang).

https://github.com/matttproud/golang_protobuf_extensions

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DNS library in Go

<https://miek.nl/2014/august/16/go-dns-package/>

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LevelDB key/value database in Go

<https://github.com/syndtr/goleveldb>

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gosnappy - a fork of code.google.com/p/snappy-go

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go-zookeeper - Native ZooKeeper client for Go

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Time series compression algorithm from Facebook's Gorilla paper

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1.190 genproto-googleapis-rpc 0.0.0-20231120223509-83a465c0220f

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1.191 x-oauth2 0.14.0

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1.192 kubernetes-apimachinery 0.28.4

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1.193 fsnotify 1.7.0

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1.194 klauspost-compress 1.17.3

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1.200 x-time-rate 0.4.0

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1.201 doublestar 4.6.1

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1.202 google-api-go-client 0.150.0

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# that the second address should be recognized as the
# same person when interacting with Rietveld.
```

```
# Please keep the list sorted.
```

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1.203 grpc-gateway 2.18.1

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1.204 google-uuid 1.4.0

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1.205 gopsutil 3.23.10

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1.206 x-oauth2 0.14.0

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1.207 doublestar 4.6.1

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1.209 cosmosx-cosmos-client 0.0.8

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2. FEES.

2.1 PRICING.

End User will be invoiced for the amounts and set forth in an Order Form (the Fees). If End Users usage of the Software is in excess of those amounts set forth in the Order Form, End User may be billed for those overages. If AppDynamics believes in good faith that End Users usage of the Software exceeds that set forth on the applicable Order Form, for on-premises deployments, End User agrees to report to AppDynamics (or allow AppDynamics to audit) the quantity of Software license units used by End User, upon at least three business days notice. AppDynamics may monitor at any time the quantity of Software license units used by End User for SaaS deployments of the Software.

2.2 PAYMENTS.

End User shall pay invoices within 30 days of the invoice date (the Invoice Due Date). All payment obligations are non-cancelable and all amounts paid are non-refundable, except as otherwise set forth in this Agreement. The Fees are exclusive of any relevant local sales taxes for which End User shall be responsible. AppDynamics shall have no responsibility for any Fees that are not received due to inaccurate or missing information provided by End User. End User shall pay interest on all payments not received by the Invoice Due Date at a rate of 1% per month or the maximum amount allowed by law, whichever is lesser. All amounts due under this Agreement shall be paid by End User in full without any set-off, counterclaim, deduction or withholding (other than any deduction or withholding of tax as required by law). If requested by AppDynamics, End User will obtain and furnish to AppDynamics tax receipts or other certificates issued by the competent taxation office showing the payments of the withholding tax within a reasonable time after payment. Following notice, AppDynamics may suspend End Users access to the Software if payments are not received within 30 days of the Invoice Due Date. If End User purchases the Software, Services or both from an authorized partner of AppDynamics, the payment terms in the agreement between the partner and End User will apply.

3. CONFIDENTIALITY

3.1 SCOPE AND RESTRICTIONS.

Confidential Information means all information of a party (Disclosing Party) disclosed to the other party (Receiving Party) that is identified as confidential at the time of disclosure or should be reasonably known by the Receiving Party to be confidential due to the nature of the information and the circumstances surrounding the disclosure. The Receiving Party will: (a) not use the Disclosing Partys Confidential Information for any purpose outside of this Agreement; (b) not disclose such Confidential Information to any person or entity, other than its affiliates, employees, consultants, agents and professional advisers who have a need to know for the Receiving Party to exercise its rights or perform its obligations hereunder, provided that such affiliates, employees, consultants, and agents are bound by agreements or, in the case of professional advisers, ethical duties respecting such Confidential Information in accordance with the terms of this Section 3; and (c) use reasonable measures to protect the confidentiality of such Confidential Information. If the Receiving Party is required by applicable law or court order to make any disclosure of such Confidential Information, it will first give written notice of such requirement to the Disclosing Party, and, to the extent within its control, permit the Disclosing Party to intervene in any relevant proceedings to protect its interests in its Confidential Information, and provide cooperation to the Disclosing Party in seeking to obtain such protection.

3.2 This Section 3 will not apply to information that the Receiving Party can document: (a) was rightfully in its possession or known to it prior to receipt without any restriction on its disclosure; (b) is or has become public knowledge or publicly available through no fault of the Receiving Party; (c) is rightfully obtained by the Receiving Party from a third party without breach of any confidentiality obligation; or (d) is independently developed by employees of the Receiving Party who had no access to such information.

3.3 EQUITABLE RELIEF.

The Receiving Party acknowledges that unauthorized disclosure of the Disclosing Partys Confidential Information could cause substantial harm to the Disclosing Party for which damages alone might not be a sufficient remedy and, therefore, that upon any such disclosure by the Receiving Party, the Disclosing Party may seek appropriate equitable relief in addition to whatever other remedies it might have at law or equity.

4. PROPRIETARY RIGHTS.

AppDynamics and its suppliers shall retain all intellectual property rights in and to the Software and the results of any Services. Certain free or open source software (the FOSS Software) and third party software are included with the Software (the Third Party Software). A list of the FOSS Software and Third Party Software, and any applicable license terms, is available at <https://docs.appdynamics.com/display/DASH/Legal+Notices>. The Software and Third Party Software may only be used by End User as prescribed by the AppDynamics documentation located at <http://docs.appdynamics.com/> (as it may be updated from time to time, the Documentation).

5. TERM AND TERMINATION.

The term of this Agreement begins on the Effective Date and will remain in effect until all Subscription Licenses (and Maintenance and Support Terms, if applicable) expire or until this Agreement is otherwise terminated in accordance with the terms hereof,

whichever occurs first (the Term). If either party commits a material breach of this Agreement, and such breach has not been cured within 30 days after receipt of written notice thereof, the non-breaching party may terminate this Agreement, except that AppDynamics may immediately terminate this Agreement and/or End Users license to the Software upon End Users breach of Section 1.2(c). Either party may also terminate this Agreement upon written notice if the other party suspends payment of its debts or experiences any other insolvency or bankruptcy-type event. Upon expiration or termination of this Agreement for any reason: (a) with respect to Subscription Licenses, all rights granted to End User shall terminate and End User shall destroy any copies of the Software and Documentation within End Users possession and control; (b) with respect to perpetual licenses, these will survive termination of this Agreement unless AppDynamics terminates the Agreement for End Users breach of this Agreement in which case all rights granted to End User shall terminate and End User shall destroy any copies of the Software and Documentation within End Users possession and control; and (c) each Receiving Party will destroy the Disclosing Partys Confidential Information in the Receiving Partys possession or control. All fees that have accrued as of such expiration or termination, and Sections 1.2, 1.3, 1.4, 2, 3, 4, 5, 6.2 and 8 through 12, will survive any expiration or termination hereof.

6. WARRANTIES.

6.1 LIMITED WARRANTY.

AppDynamics warrants that during the first 30 days following the date the Software is purchased, the Software will, in all material respects, conform to the functionality described in the then-current Documentation for the applicable Software version. AppDynamics sole and exclusive obligation, and End Users sole and exclusive remedy, for a breach of this warranty shall be that AppDynamics shall be required to repair or replace the Software to conform in all material

respects to the Documentation, and if AppDynamics is unable to materially restore such functionality within 30 days from the date of written notice of such breach, End User may terminate the license to the affected Software upon written notice and AppDynamics shall promptly provide a pro-rata refund of the Software license fees (or Maintenance and Support Fees, for perpetual licenses) that have been paid in advance for the remainder of the License Term for the applicable Software (beginning on the date of termination). End User must notify AppDynamics in accordance with Section 12 of any warranty breaches within such warranty period, and End User must have installed and configured the Software in accordance with the Documentation to be eligible for the foregoing remedy.

6.2 WARRANTY DISCLAIMER.

Except as expressly provided in this Section 6.1, all software, documentation, maintenance and support and services are provided as is and AppDynamics and its suppliers expressly disclaim any and all other representations and warranties, either express, implied, statutory, or otherwise with respect thereto. AppDynamics expressly disclaims any warranty as to the accuracy or completeness of any information or data accessed or used in connection with the software, documentation, maintenance and support, or services or that the software will be compatible or work with any end user or third party software or hardware. Each party acknowledges that, in entering into this Agreement, it has not relied on, and shall have no right or remedy in respect of, any statement, representation, assurance or warranty (whether made negligently or innocently) other than as expressly set out in this Agreement. The Software is not fault-tolerant and is not designed or intended for use in hazardous environments, including without limitation, in the operation of aircraft or other modes of human mass transportation, nuclear or chemical facilities, life support systems, implantable medical equipment, motor vehicles or weaponry systems, or any other application in which failure of the Software could lead to death or serious bodily injury of a person, or to severe physical or environmental damage (each, a High Risk Use). AppDynamics expressly disclaims any express or implied warranty or representation of fitness for High Risk Use. AppDynamics shall not be liable to End User for any loss, damage or harm suffered by End User that is directly or indirectly caused by End Users unauthorized use of the Software to process Prohibited Data.

7. INDEMNIFICATION.

7.1 BY APPDYNAMICS.

Subject to Section 7.2 and End Users compliance with Section 7.4, AppDynamics agrees at its expense to defend End User against (or, at AppDynamics option, settle), any third party claim to the extent such claim alleges that the Software infringes or misappropriates any patent, copyright, trademark or trade secret of a third party, and AppDynamics shall pay all costs and damages finally awarded against End User by a court of competent jurisdiction as a result of any such claim. If the use of the Software is, or in AppDynamics sole opinion is likely to become, subject to such a claim, AppDynamics, at its option and expense, may (a) replace the applicable Software with functionally equivalent non-infringing technology, (b) obtain a license for End Users continued use of the applicable Software, or (c) terminate the license and provide a pro-rata refund of the Software license fees (or Maintenance and Support Fees, for perpetual licenses) that have been paid in advance for the remainder of the License Term for the applicable Software (beginning on the date of termination). The foregoing indemnification obligation of AppDynamics will not apply: (a) if the Software is modified by End User or its agent; (b) if the Software is combined with other non-AppDynamics products, applications, or processes, but solely to the extent the alleged infringement is caused by such combination; or (c) to any unauthorized use of the Software. The foregoing shall be End Users sole remedy with respect to any claim of infringement of third party intellectual property rights.

7.2 BY END USER.

Subject to AppDynamics compliance with Section 7.3, End User agrees to defend, at its expense, AppDynamics and its affiliates, its suppliers and its resellers against any third party claim to the extent such claim arises from or is made in connection with End Users breach of Section 1 or End Users negligence or willful misconduct, and End User shall pay all costs and damages finally awarded against AppDynamics by a court of competent jurisdiction as a result of any such claim.

7.3 INDEMNIFICATION REQUIREMENTS.

The following are conditions to any claim for indemnification under this Section 7. The indemnified party must

promptly provide the indemnifying party with notice of any claim that the indemnified party believes is within the scope of the obligation to indemnify, provided, that the failure to provide such notice shall not relieve the indemnifying party of its obligations under this Section 7, except to the extent that such failure materially prejudices the indemnifying party's defense of such claim. The indemnified party may, at its own expense, assist in the defense if it so chooses, but the indemnifying party shall control the defense and all negotiations related to the settlement of any such claim. Any such settlement intended to bind either party shall not be final without the other party's written consent, which consent shall not be unreasonably withheld, conditioned or delayed; provided that, End Users consent shall not be required when AppDynamics is the indemnifying party if the settlement involves only the payment of money by AppDynamics.

8. LIMITATION OF LIABILITY.

8.1 Subject to Section 8.3, in no event shall either party be liable for any indirect, incidental, special, punitive or consequential damages, including damages for loss of revenues or profits, loss of use, business interruption, or loss of data, whether in an action in contract or tort (including negligence), even if the other party has been advised of the possibility of such damages.

8.2 Subject to Section 8.1 and 8.3, neither party's liability for any damages (whether for breach of contract, misrepresentations, negligence, strict liability, other torts or otherwise) under this agreement shall exceed an amount equal to 100% of the total fees paid (plus Fees payable) to AppDynamics during the 12 months immediately preceding the claim giving rise to such damages. This limitation of liability is aggregate and not per incident. If End User has made an upfront payment of Fees for the entire License Term, the 100% cap shall be calculated by using 12 times the pro rata monthly fee of the fees paid upfront. These limitations shall apply notwithstanding any failure of essential purpose of any remedy.

8.3 Nothing in this Agreement will limit or exclude either party's liability for: (a) any other matter which by law may not be excluded or limited; (b) in the case of End User, for (1) breach of Section 1.2 (c); and (2) payment of the Fees.

9. FORCE MAJEURE.

Except for payment obligations, neither party hereto will be liable for defaults or delays due to acts of God or the public enemy, acts or demands of any government or governmental agency, fires, earthquakes, floods, other natural disasters, accidents, or other unforeseeable causes beyond its reasonable control and not due to its fault or negligence.

10. DATA COLLECTION.

10.1 Subject to AppDynamics compliance with data protection laws applicable to it, End User acknowledges that AppDynamics may collect information generated by instrumentation and logging systems created through the use and operation of the Software which AppDynamics may use for its internal business purposes. If End User provides AppDynamics with any personally identifiable information (PII), End User represents and warrants that such information has been collected in accordance with the provisions of all applicable data protection legislation and that End User has all right and consents necessary to provide such PII to AppDynamics.

10.2 If End User is subject to Regulation 2016/679 of the European Parliament and of the Council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and

repealing Directive 95/46/EC (General Data Protection Regulation), the terms of Exhibit C shall apply.

11. US GOVERNMENT MATTERS.

As defined in FAR section 2.101, the Software and Documentation are commercial items and according to DFAR section 252.227 7014(a)(1) and (5) are deemed to be commercial computer software and commercial computer software documentation. Consistent with DFAR section 227.7202 and FAR section 12.212, any use modification, reproduction, release, performance, display, or disclosure of such commercial software or commercial software documentation by the U.S. Government will be governed solely by the terms of this Agreement and will be prohibited except to the extent expressly permitted by the terms of this Agreement.

12. MISCELLANEOUS.

This Agreement shall be governed by and construed under the laws of the State of California, U.S.A. Failure by either Party to exercise any of its rights under, or to enforce any provision of, this Agreement will not be deemed a waiver or forfeiture of such rights or ability to enforce such provision. If any provision of this Agreement is held by a court of competent jurisdiction to be illegal, invalid or unenforceable, such provision will be amended to achieve as nearly as possible the same economic effect of the original provision and the remainder of this Agreement will remain in full force and effect. This Agreement and its exhibits, together with the Order Form(s) and any statements of work incorporating this Agreement, if applicable, represent the entire agreement between the parties and supersede any previous

or contemporaneous oral or written agreements or communications regarding the subject matter of this Agreement. The person signing or otherwise accepting this Agreement for each party represents that s/he is duly authorized by all necessary and appropriate corporate action to enter this Agreement. Any modification to this Agreement must be in writing and signed by a duly authorized signatory of both parties and no previous, contemporaneous or future oral statements will be deemed to modify this Agreement. Neither the Uniform Commercial Code (UCC) nor the Uniform Computer Information Transactions Act (UCITA) will apply to this Agreement. This Agreement shall control over additional or different terms of any purchase order, confirmation, invoice, statement of work or similar document (other than an AppDynamics Order Form, which will take precedence), even if accepted in writing by both parties, and waivers and amendments to this Agreement shall be effective only if made by non-pre-printed agreements clearly understood by both parties to be an amendment or waiver to this Agreement. For purposes of this Agreement, including means including without limitation. The rights and remedies of the parties hereunder will be deemed cumulative and not exclusive of any other right or remedy conferred by this Agreement or by law or equity. No joint venture, partnership, employment, or agency relationship exists between the parties as a result of this Agreement or use of the Software. AppDynamics reserves the right to perform its obligations from locations and/or through use of affiliates and subcontractors, worldwide, provided that AppDynamics will be responsible for such parties. End User may not assign this Agreement without the prior written approval of AppDynamics and any purported assignment in violation of this section shall be void; AppDynamics may assign, transfer or subcontract this Agreement in whole or in part. Upon any assignment of this Agreement by End User that is approved by AppDynamics, any licenses that contain an unlimited aspect will, with respect to End User or the successor entity, as applicable, be capped at the number of authorized Software units in use immediately prior to such assignment. End User agrees that AppDynamics may refer to End User by its trade name and logo, and may briefly describe End Users business, in AppDynamics marketing materials and website. AppDynamics may give notice to End User by electronic mail to End Users email address on record in End Users account information, or by letter sent by nationally recognized overnight delivery service to End Users address on record in End Users account information. End User may give notice to AppDynamics at any time by letter sent by nationally recognized overnight delivery service or first class postage prepaid mail to AppDynamics at the following address or such other

address as may be notified to End User from time to time: AppDynamics, 303 Second Street, North Tower, 8th Floor,

San Francisco, CA 94107, Attn: Legal Department. Notice under this Agreement shall be deemed given: (a) when received, if personally delivered; (b) when receipt is electronically confirmed, if transmitted by email; (c) the next business day after it is sent, if sent by first class postage prepaid post; (d) five business days following postage if sent by pre-paid mail; and (e) upon receipt, if sent by certified or registered mail, return receipt requested.

EXHIBIT A

ENTERPRISE SUPPORT

GENERAL REQUIREMENTS.

AppDynamics will provide access to a ticketing system that will be available 24 hours per day, seven days per week. The ticketing system will be maintained by qualified support specialists, who shall provide technical support regarding the Software.

ERROR CLASSIFICATION.

Any reported collectionErrors are classified in the following manner, in each case when caused by the Software:

Error Classification Criteria

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Urgent	End User production application is down or there is a major malfunction, resulting in a business revenue loss and impacting the End User application functionality for a majority of users.
High	Critical loss of End User application functionality or performance, impacting the application functionality for a high number of users.
Normal	Moderate loss of End User application functionality or performance, impacting multiple users.
Low	Minor loss of End User application functionality or product feature in question.

ERROR DEFINITION.

An collectionError means a reproducible malfunction in the Software that is reported by End User through AppDynamics ticketing system that prevents the Software from performing in accordance with the operating specifications described in the then-current Documentation.

AUTHORIZED

SUPPORT CONTACTS.

Maintenance and Support will be provided to End Users designated support contacts.

END USERS OBLIGATION TO ASSIST.

If End User reports a purported collectionError in the Software to AppDynamics, AppDynamics ticketing system will request the following minimum information:

- A general description of the operating environment
- A list of all hardware components, operating systems and networks
- A reproducible test case
- Any log files, trace and systems files

End Users failure to provide this information may prevent or significantly delay AppDynamics ability to identify and fix the reported collectionError. AppDynamics time to respond to any collectionError will begin when AppDynamics has received all requested information from the End User and is able to reproduce the collectionError.

ERROR RESOLUTION.

If AppDynamics determines there is an collectionError in the Software, AppDynamics may, at its sole option, repair that collectionError in the version of the

Software that End User is currently using or instruct End User to install a newer version of the Software with that collectionError repaired. AppDynamics reserves the right to provide End User with a workaround in lieu of fixing an collectionError.

MAINTENANCE. Provided End User is current on Fees AppDynamics will make available to End User updates and upgrades to the Software that it, in its sole discretion, makes generally commercially available to all customers.

RESPONSE TIME. AppDynamics shall respond to collectionError tickets in accordance with the tables set forth below. AppDynamics will use reasonable means to repair the collectionError and keep End User informed of progress. AppDynamics makes no representations as to when a full resolution of the collectionError may be made.

Error	Initial Response	Manager Escalation	VP Escalation	Email	Status Updates
Urgent	1 Hour				
	1 Business Day	1 Week	Daily		
High	6 Hours	1 Week	2 Weeks	Weekly	
Normal	1 Business Day	Quarterly Review	None	None	
Low	2 Business Days	Semi-Annual Review	None	None	

MAINTENANCE AND SUPPORT POLICY: The Maintenance and Support policy is as follows:

AppDynamics provides Maintenance and Support for each version of the Software for a period of 12 months after the generally available release of the next major version of the Software (a major release is a change in the first number to the right of the decimal point). For example, if version 4.1 is released on January 1, 2015, then

AppDynamics will provide Maintenance and Support for version 4.0 until January 1, 2016. AppDynamics does not provide Maintenance or Support for any customized software (or components thereof).

For third party software or technology used by End User with the Software but not included with the Software (a Platform, such as Java Virtual Machines), AppDynamics will follow the end-of-life (EOL) support timeline announced by the third party vendor of such Platform. AppDynamics will stop providing Maintenance and Support for an EOLd Platform version when the Platform vendor stops providing maintenance and support for that Platform version.

EXHIBIT B AVAILABILITY

The terms set forth in this Exhibit B apply only if End User has purchased access to the online software-as-a-service (SaaS) version of the Software, as indicated on the Order Form.

AVAILABILITY.

AppDynamics will provide Availability (as defined below) of 99.5% (the Availability SLA), excluding situations identified as Exclusions below. For purposes of the Availability SLA, the AppDynamics network extends to, includes and terminates at the data center located router that provides the outside interface of each of AppDynamics WAN connections to its backbone providers (the AppDynamics Network). A report on the actual Availability is located at <https://status.appdynamics.com>.

The Controller is the central repository and analytics engine where all performance data is stored, baselined, and analyzed.

Exclusions means any outage that results from any of the following:

- a. Any Maintenance performed by AppDynamics during AppDynamics standard Maintenance windows. AppDynamics will notify End User within 48 hours of any standard Maintenance and within 24 hours for other non-standard emergency Maintenance (collectively referred to herein as Scheduled Maintenance).
- b. End Users information content or application programming, or the acts or omissions of End User or its agents, including, without limitation, the following:
 1. End Users use of any programs not supplied by AppDynamics;
 2. End Users failure to provide AppDynamics with reasonable prior written notice of any significant deployments of new nodes or change in configurations resulting in greater than 30% change in a one week period or greater than 50% change in a month in the number of key objects collected; or
 3. End Users failure to upgrade AppDynamics application server and machine software agents (the Agents) to a supported version (i.e. that has not been end of lifed by AppDynamics)
- c. Failures of the Internet backbone itself and the network by which End User connects to the Internet backbone or any other network unavailability outside of the AppDynamics Network, such as misconfigurations, proxies or firewalls.
- d. Any problems resulting from End User combining or merging the Software with any hardware or software not supplied by AppDynamics or not identified by AppDynamics in the Documentation as being compatible with the Software.
- e. End Users or any third partys use of the Software in an unauthorized or unlawful manner.

Remedies for Excessive Downtime:

If Availability falls below the Availability SLA in a given calendar quarter, AppDynamics will pay End User a service credit (Service Credit) as follows, corresponding to the actual Availability during the applicable calendar quarter (on pro-rated basis): if the Availability is 99.5% or greater, End User is entitled to receive no credits; if the Availability is 97.0% - 99.49%, then End User is entitled to receive Service Credits equal to five percent of the fees for the applicable calendar quarter; if the Availability is 95.0% - 96.9%, then End User is entitled to receive Service Credits equal to ten percent of the fees for the applicable calendar quarter; and if the Availability is less than 95.0%, then End User is entitled to receive Service Credits equal to twenty percent of the fees for the applicable calendar quarter. receive Service Credits, End User must submit a written request to AppDynamics (to legal@appdynamics.com) within 15 days after the end of the quarter in which failure to meet Availability occurred, or End Users right to receive the relevant Service Credits will be waived. Such Service Credit will be issued as a credit against any fees owed by End User for the calendar quarter of the License Term after the request for a Service Credit, or, if End User does not owe any additional fees, then AppDynamics will pay End User the amount of the applicable Service Credit within 30 days after the end of the calendar month in which End User has requested the Service Credit. The remedies stated in this section are End Users sole and exclusive remedies and AppDynamics sole and exclusive obligations for service interruption or unavailability.

Availability is measured by the following formula: $(n - y) * 100 / n$

(1) n is the total number of minutes in the given calendar quarter minus the Exclusions (as defined above); and y is the total number of minutes in the given calendar quarter that the Controller is not accessible by End User (as determined by AppDynamics tools).

(2) Specifically excluded from n and y in this calculation are the Exclusions.

EXHIBIT C

DATA PROTECTION

This Exhibit shall apply to the processing of any personal data (each as defined below) by AppDynamics in the course of providing the SaaS (as defined below) version of the Software and/or support to the End User.

Data Protection

The terms of this Exhibit apply only if: (i) End User is subject to Data Protection Law (as defined below); and (ii) End User has purchased access to the online software-as-a-service (SaaS) version of the Software, as indicated on the Order Form,

1. DEFINITIONS.

In this Exhibit, the following terms shall have the following meanings:

"controller", "processor", "data subject", "personal data" and "processing" (and "process") shall have the meanings given in the Data Protection Law;

"Data Protection Law" shall mean Regulation 2016/679 of the European Parliament and of the Council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation); and

Standard Contractual Clauses shall mean the terms at <https://trust.appdynamics.com/privacy/dataprotectionclauses> which form part of this Exhibit pursuant the European Commission Decision C(2010)593 of 5 February 2010.

2. RELATIONSHIP OF THE PARTIES.

End User (the controller) appoints AppDynamics as a processor to process the personal data described in Annex A (the "Data"). Each party shall comply with the obligations that apply to it under Data Protection Law.

3. PURPOSE LIMITATION.

AppDynamics shall process the Data as a processor as necessary to perform its obligations under this Agreement and strictly in accordance with the documented instructions of the End User (the "Permitted Purpose"), except where otherwise required by any law. Taking into account the nature of the processing and the Software, AppDynamics shall promptly, after becoming aware, inform End User if in AppDynamics opinion an instruction from or on behalf of End User infringes Data Protection Law.

4. INTERNATIONAL TRANSFERS.

Where End Users Controller is hosted on AppDynamics EU based SaaS platform, AppDynamics shall not transfer the Data (nor permit the Data to be transferred) outside of the European Economic Area ("EEA") unless (i) it has first obtained the End User's prior written consent; and (ii) it takes measures to ensure the transfer is in compliance with Data Protection Law; and (iii) for the purposes of providing Support. The Standard Contractual Clauses will apply only to personal data that is transferred outside the EEA, either directly or via onward transfer, to any country not recognised by the European Commission as providing an adequate level of protection for personal data (as described in the Data Protection Laws). The Standard Contractual Clauses will not apply if AppDynamics has adopted an alternative recognised compliance standard for the lawful transfer of personal data (as defined in the Data Protection Laws) outside the EEA.

5. CONFIDENTIALITY OF PROCESSING.

AppDynamics shall ensure that any person that it authorises to process the Data (including AppDynamics' staff, agents and subcontractors) (an "Authorised Person") shall be subject to a duty of confidentiality (whether a contractual duty or a statutory duty).

6. SECURITY.

The processor shall implement appropriate controls, including technical, organisational, and other measures, designed to protect the Data (i) from accidental or unlawful destruction, and (ii) loss, alteration, unauthorised disclosure of, or access to the Data (a "Security Incident").

7. SUBCONTRACTING.

AppDynamics shall not subcontract any processing of the Data to a third-party subcontractor without the prior written consent of the End User. Notwithstanding this, the End User consents to AppDynamics engaging third-party

subcontractors to process the Data provided that: (i) AppDynamics provides at least 7 days' notice prior to the addition or removal of any subcontractor (including details of the processing it performs or will perform and the location of the subcontractor), which may be

given by posting details of such addition or removal at the following URL:

<https://trust.appdynamics.com/privacy/subprocessors>; (ii) AppDynamics imposes data protection terms on any subcontractor it appoints that protect the Data to the same standard provided for by this paragraph; and (iii) AppDynamics remains fully liable for any breach of this paragraph that is caused by its subcontractor. A list of approved subcontractors and subcontractor locations as at the date of this Agreement is at <https://trust.appdynamics.com/privacy/subprocessors>. If the End User refuses to consent to AppDynamics' appointment of a third-party subcontractor on reasonable grounds relating to the protection of the Data, then End User may terminate this Agreement by giving no less than 30 days written notice.

8. DATA SUBJECTS' RIGHTS.

AppDynamics shall provide reasonable assistance to the End User (at the End User's expense) to enable the End User to respond to any request from a data subject to exercise any of its rights under Data Protection Law (including its rights of access, correction, objection, erasure and data portability, as applicable).

9. DATA PROTECTION IMPACT ASSESSMENT.

If the End User reasonably believes that AppDynamics' processing of the Data will result in a high risk to the data protection rights and freedoms of data subjects, it shall promptly inform AppDynamics and AppDynamics shall, if requested by the End User, provide the End User with reasonable information to enable the End User to conduct a data protection impact assessment (taking into account the nature of the processing and the information available to AppDynamics).

10. SECURITY INCIDENTS.

Upon becoming aware of a confirmed Security Incident, AppDynamics shall inform the End User without undue delay and shall provide all such timely information and cooperation as the End User may reasonably require in order for the End User to fulfil its data breach reporting obligations under (and in accordance with the timescales required by) Data Protection Law. AppDynamics shall further take such measures and actions as it considers necessary to remedy or mitigate the effects of the Security Incident and shall keep the End User informed in connection with the Security Incident.

11. DELETION OF DATA.

AppDynamics will effectively destroy all relevant Data along with any medium or document containing said Data within 14 days from receiving a written request from End User. Upon termination or expiry of this Agreement, AppDynamics will effectively destroy all Data within the time periods stated in the Licence Entitlements and Restrictions for the relevant version of the Software as set out at <https://docs.appdynamics.com/display/PAA/Product+Announcements+and+Alerts+Home>. AppDynamics shall send the End User written confirmation thereof on written request.

12. RETURN OF DATA.

AppDynamics provides End User with access to its Data in industry standard formats including CSV, XML, and

JSON via REST API.

End User may use the AppDynamics APIs to export its Data from the Software at any time. For more information, please see <https://docs.appdynamics.com>.

13. END USER AUDIT.

AppDynamics engages a qualified and independent third-party auditor to conduct semi-annual SOC 2 Type II audits in order to evaluate the adequacy of AppDynamics information security program. Each such audit results in the generation of an audit report (Report), which shall be AppDynamics Confidential Information. During the Licence Term, AppDynamics shall: (i) maintain SOC 2 Type II certification (or other industry-recognized successor certification); (ii) at End Users written request, not more than once per calendar year, provide End User with the then-current Report; and (iii) at End Users expense, promptly (taking into account the nature of the request and to the extent reasonably feasible from a technical perspective) comply with any request of End User for information (including any books and/or records) relating

to the Software and/or Services as necessary for End User to enable it to comply with Data Protection Law or any request from a regulator. End User agrees that any audit and inspection rights it may have under Data Protection Law shall be satisfied by the obligations in this paragraph 13.

14. FURTHER SECURITY INFORMATION.

At End Users expense, AppDynamics shall further provide detailed written responses (on a confidential basis) to all reasonable requests for information made by End User, including responses to information security and audit questionnaires, that are necessary to confirm AppDynamics compliance with this Agreement.

15. REGULATOR AUDITS.

If a regulator wishes to carry out any audit or inspection of AppDynamics or its activities under this Agreement, End User shall provide AppDynamics at least 30 days advance notice of any audit, except where the regulator has given less notice to End User or AppDynamics. AppDynamics shall provide access for any audit or investigation by regulator(s) or law enforcement agent(s) as they require.

ANNEX A TO EXHIBIT C

SUBJECT MATTER OF PROCESSING

The extraction, collection, storage and analysis of Data generated by, and through, the use of End Users software applications.

Further information about what processing of Data each Software product can be used for can be found at www.appdynamics.com/product and in the Documentation.

DURATION OF PROCESSING

For the Licence Term of the SaaS Software licence.

NATURE AND PURPOSE OF PROCESSING

The Data will be processed by AppDynamics SaaS Software platform in order to improve the efficiency and functioning of monitored website(s), software and/or server(s) of End User.

The Software enables the End User to:

- a. Measure and track response time, load, collectionError rate, slow rate, and stalls for application transactions.
- b. Auto-discover and map application tiers and services, and see the relationships between them.
- c. Learn "normal" performance behavior and "normal" code execution paths for application transactions and application services over time so that anomalies can be detected automatically.
- d. Follow the flow of application transactions across tiers and services (even in a highly distributed environment) to allow the identification of bottlenecks.
- e. Identify the root cause of collectionErrors in applications.
- f. View reports and obtain visibility into application performance for understanding the service levels of such applications.
- g. View operational dashboards to help information technology teams understand the health and performance of application environments.
- h. View agile release comparisons so that developers understand the business impact of application releases, for the purpose of identifying regression and learning from production deployments.

In the course of monitoring End Users website(s), software and/or server(s), AppDynamics will necessarily ingest and process the Data described above in this Annex A for the purpose of providing the Software and its functions.

TYPE OF PERSONAL DATA AND CATEGORIES OF PERSONAL DATA

Depending on the End Users configuration of the Software the following types and categories of personal data that might be collected are:

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Included in this category are classes of data which identify the data subject and their personal characteristics. Examples are names, addresses, job title, employer, contact details, age, sex, date of birth, physical descriptions, identifiers issued by public bodies, e.g. NI number.

Family, lifestyle and social circumstances

Included in this category are any matters relating to the family of the data subject and the data subjects lifestyle and social circumstances. Examples are details about current marriage and partnerships and marital history, details of family and other household members, habits, housing, travel details, leisure activities, membership of charitable or voluntary organisations.

Education and training details

Included

in this category are any matters which relate to the education and any professional training of the data subject. Examples are academic records, qualifications, skills, training records, professional expertise, student and pupil records.

Employment details

Included in this category are any matters relating to the employment of the data subject. Examples are employment and career history, recruitment and termination details, attendance record, health and safety records, performance

appraisals, training records, security records.

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IT information

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1.210 x-net 0.19.0

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1.211 x-sys 0.15.0

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1.212 x-crypto 0.16.0

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1.213 golang-snappy 0.0.4

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1.214 color 1.15.0

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1.215 gax-go 2.12.0

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1.216 cors 1.10.1

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1.217 aws-sdk-go 1.48.5

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1.218 contrib-config 0.1.1

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1.219 otel-exporters-otlp-otlptrace-otlptracehttp 1.21.0

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1.224 open-telemetry-opentelemetry-collector-contrib 1.21.0

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1.226 antonmedv-expr 1.15.5

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1.228 x-exp 0.0.0-20231127185646- 65229373498e

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1.235 influxdata-go-syslog 3.0.1-0.20230911200830-875f5bc594a4

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1.237 otel-metric 1.21.0

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1.238 otel-exporters-otlp-otlptrace-otlptracegrpc 1.21.0

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1.239 collector-pdata 1.0.0

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1.240 consul 1.26.1

1.240.1 Available under license :

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# 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:  
    # Logic to only apply check 1.1[4,5,6].x branches is in license_checker.sh  
    types: [opened, synchronize]  
  
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

```

```

---
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`.

### ### 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": []
}
```
```

```
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */
```

```
@import './skin';
@import './layout';
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */
```

```
.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;
  }
}
/**
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 * SPDX-License-Identifier: BUSL-1.1
 */

```

```

@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;
}

```

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

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\*/

```
.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
```

```
{{!
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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}}
```

```

layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License

```

## # Consul-Terraform-Sync Enterprise License

```
<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>
```

CTS Enterprise binaries require a [Consul Enterprise license](/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/nia/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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}}

<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>

```

```

{
 "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$"
 }
 }
 },
 {
"andIds": {
 "ids": [
 {
 "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"
 }
 }
 }
 }
 }

```

```

 }
]
}
}
]
}
}
]
}
}
}
}
}
}
}
}
}
{
 "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": {

```



```

{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
 "rules": {},
 "statPrefix": "connect_authz"
 }
}
{
 "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": [
]
}
{
 "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": {
 "asyncFetch": {
 "fastListener": true
 },
 "httpUri": {
 "cluster": "jwks_cluster_okta",
 "timeout": "1s",
 "uri": "https://example-okta.com/.well-known/jwks.json"
 }
 }
 }
},
"rules": [
 {
 "match": {
 "prefix": "/"
 },
 "requires": {
 "requiresAny": {
 "requirements": [
 {
 "providerName": "okta"
 },
 {
 "allowMissingOrFailed": {}
 }
]
 }
 }
 }
]
}
}
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

```

```

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
 @extend %list-row-200;
 }
}

```



```
}
}
/*!
 * 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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\*\*\*\*\* \*/

```
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 */
```

```
/**
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 * Copyright 2019 Google LLC
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 */
```

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## # 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":{}}
```

...

</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: BUSL-1.1
}}

<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: BUSL-1.1
 */

.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;
 }
}
Copyright (c) 2020 HashiCorp, Inc.

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```

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```
{{!
```

```
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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}}
 {{#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: BUSL-1.1
 */

```

```

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}

```

---

```

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
-----
<code>`operator:write`</code>

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
}
```

```
{{!
```

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

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

```
}}
```

```
<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: BUSL-1.1
*/

```

```

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 */
}

```

---

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: BUSL-1.1
```

```
*/
```

```
.consul-intention-permission-header-list {
```

```
 dt::before {
```

```
 @extend %with-glyph-icon;
```

```
 content: 'H';
```

```
 }
```

```
}
```

```
/**
```

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

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

```
*/
```

```
.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';
```

```
 }
```

```
}
```

```
/**
```

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

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

```
*/
```

```
.consul-intention-permission-list {
 .detail > div {
 display: flex;
 width: 100%;
 }
 strong {
 margin-right: 8px;
 }
}
{!!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: BUSL-1.1
}}
```

```
{{#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}}
Copyright 2014-2018 HashiCorp, Inc.
```

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```
{!!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: BUSL-1.1
}}
```

```
<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>
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
 "providers": {
 "auth0": {
 "issuer": "another-issuer",
 "payloadInMetadata": "jwt_payload_auth0",
 "remoteJwks": {
 "asyncFetch": {
 "fastListener": true
 },
 "httpUri": {
 "cluster": "jwks_cluster_auth0",
 "timeout": "1s",
 "uri": "https://example-auth0.com/.well-known/jwks.json"
 }
 }
 },
 "okta": {
 "issuer": "test-issuer",
 "payloadInMetadata": "jwt_payload_okta",
 "remoteJwks": {
 "asyncFetch": {
 "fastListener": true
 },
 "httpUri": {
 "cluster": "jwks_cluster_okta",
 "timeout": "1s",
 "uri": "https://example-okta.com/.well-known/jwks.json"
 }
 }
 }
 },
 "rules": [
 {
 "match": {
 "prefix": "/"
 },
 "requires": {
 "requiresAll": {
 "requirements": [

```





```
isDirty=(and changeset.isValid)
changeset=changeset
)}}
```

```
<fieldset>
 <div data-property="action">

 Should this permission allow the source connect to the destination?

 <div role="radiogroup" class={{ if changeset.error.Action 'has-error'}}>
 {{#each intents as |intent|}}
 <label>
 {{ capitalize intent }}
 <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">
 All methods are applied by default unless specified
 <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 }}
 />
 {{ method }}
</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>

```

# 1.241 otel-exporters-stdout-stdouttrace 1.21.0

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# 1.242 otel-exporters-stdout-stdoutmetric

## 0.44.0

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# 1.243 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 0.44.0

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## 1.244 x-sys 0.15.0

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## 1.253 collector-extension 0.90.1

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# 1.257 collector-exporter-otlpexporter 0.90.1

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# 1.258 open-telemetry-opentelemetry-collector-contrib-internal-filter 0.90.1

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## 1.259 collector-config-configcompression

### 0.90.1

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# 1.260 open-telemetry-opentelemetry-collector-contrib-pkg-pdatautil 0.90.1

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## 0.90.1

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# 1.272 open-telemetry-opentelemetry-collector-contrib 0.90.1

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## 1.276 collector-extension-ballastextension

### 0.90.1

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# 1.285 collector-exporter-otlphttpexporter

## 0.90.1

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# 1.286 collector-config-confignet 0.90.1

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# 1.287 open-telemetry-opentelemetry-collector-contrib-processor-redactionprocessor 0.90.1

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## 1.288 otel-otel-collector v0.90.1

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# 1.289 google-cloud-go v1.23.3

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```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "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/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.WithTimeout(600000 * time.Millisecond),
 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{
 gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

// 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-* headers to be sent with each request.
 xGoogHeaders []string

 // 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", gax.GoVersion}, keyval...)
kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{"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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

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

 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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

```

```

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

```

hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

```

```

hds = append(c.xGoogHeaders, hds...)

```

```

hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx, hds...)

```

```

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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

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

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



```
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```

```
package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io"
 "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/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{
 gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 },
 }
}
```

```

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.WithTimeout(600000 * time.Millisecond),
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{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
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{
gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

```

// 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-* headers to be sent with each request.
 xGoogHeaders []string

 // 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", gax.GoVersion}, keyval...)
 kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```



```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
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 := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("s=%v&s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
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("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 := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return
 }
 err

 if err := unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return 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.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
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 := io.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

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

```

```

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

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

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

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

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

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

```

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

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

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package compute\_test

import (

"context"

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

computepb "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](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/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 := &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/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

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

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

```

```

// TODO: Use resp.
_ = resp
}
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package compute_test

import (
 "context"

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

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

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()

```

```

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// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

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

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

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

```

}

# 1.290 client-model v0.5.0

## 1.290.1 Available under license :

Data model artifacts for Prometheus.

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# 1.291 ..--patchedcomponents-processor-transformprocessor v0.90.1

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## 1.292 godo 1.104.1

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Portions of the client are based on code at:  
<https://github.com/google/go-github/>

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## 1.293 gophercloud 1.7.0

## 1.293.1 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)(<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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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)  
}
```

1.294 nomad_api v0.0.0-20230721134942-515895c7690c

1.294.1 Available under license :

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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: MPL-2.0

```
package nomad
```

```
import (
```

```
    "time"
```

```
    "golang.org/x/exp/slices"
```

```
)
```

```
// 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: 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
}

```

```

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

```

```

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: MPL-2.0

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: 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](mailto: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)(/nomad/tutorials/enterprise/hashicorp-enterprise-license).

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

```
ISC
```

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

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

```
//go:build !ent
```

```
package nomad
```

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

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

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

```
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)
}

```

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]c

```

## 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

---

# 1.295 nomad\_api hashicorp

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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: MPL-2.0

```

```
package nomad
```

```

import (
 "time"

 "golang.org/x/exp/slices"
)

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

```
ISC
```

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

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

```
//go:build !ent
```

```
package nomad
```

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

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

```
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)
}
---
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.hclic]
```

```
^^^
```

## ## Examples

With a license file argument:

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

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

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

```
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": [
```

```
    "multicenter-and-efficiency",
```

```
    "governance-policy"
```

```
  ]
```

```
}
```

```
License is valid
```

```
^^^
```

With a license file environment variable:

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

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

```
$ nomad license inspect
```

```
Source: /path/to/nomad/license.hclic (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

...

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