



# Open Source Used In AppDynamics\_Distribution\_for\_Open Telemetry\_Collector 23.3.0

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

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//

// For more information: http://goo.gl/8us55a#licenseObject
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Name string `json:"name,omitempty"`

URL string `json:"url,omitempty"`
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package spec
import "testing"
func TestIntegrationLicense(t *testing.T) {
license := License { "the name", "the url" }
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url\n"
assertSerializeJSON(t, license, licenseJSON)
assertSerializeYAML(t, license, licenseYAML)
assertParsesJSON(t, licenseJSON, license)
assertParsesYAML(t, licenseYAML, license)
```

# 1.4 ionos-cloud/sdk-go v6.1.3

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## 1.5 text v0.8.0

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# processor/transformprocessor/v0.73.0

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## 1.8 spf13-cobra 1.6.1

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# 1.27 googleapis/enterprise-certificate-proxy v0.2.3

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## 1.28 mod v0.9.0

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## 1.41 go-ole-go-ole v1.2.6

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## 1.43 fsnotify-fsnotify v1.6.0

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# 1.44 open-telemetry/opentelemetry-collectorcontrib processor/resourceprocessor/v0.73.0

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// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
package compute
import (
"bytes"
"context"
"fmt"
"io/ioutil"
"math"
"net/http"
"net/url"
computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
var newLicensesClientHook clientHook
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
```

```
Delete
              []gax.CallOption
Get
             []gax.CallOption
GetIamPolicy
                  []gax.CallOption
Insert
             []gax.CallOption
List
             []gax.CallOption
SetIamPolicy
                 []gax.CallOption
TestIamPermissions []gax.CallOption
}
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
 Delete:
               []gax.CallOption{},
 Get:
               []gax.CallOption{},
 GetIamPolicy:
                   []gax.CallOption{},
 Insert:
               []gax.CallOption{},
 List:
              []gax.CallOption{},
 SetIamPolicy:
                   []gax.CallOption{},
 TestIamPermissions: []gax.CallOption{},
}
}
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context, *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"),
 internal option. With Default MTLSEndpoint ("https://compute.mtls.googleapis.com"),
 internaloption. With Default Audience ("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
```

```
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
 return err
return nil
}
// Connection returns a connection to the API service.
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context, Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
params := url.Values{ }
if req!= nil && req.RequestId!= nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
```

```
baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 return nil
}, opts...)
if e != nil {
 return nil, e
op := &Operation{
 &globalOperationsHandle{
        c.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
base Url. Path += fmt. Sprintf("/compute/v1/projects/\%v/global/licenses/\%v", req. Get Project(), req. Get License()) \\
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
 baseUrl.Path = settings.Path
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return err
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
 }
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil, e
}
```

```
return resp, nil
}
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/% v/global/licenses/% v/getIamPolicy", req.GetProject(),
req.GetResource())
params := url.Values{ }
if req!= nil && req.OptionsRequestedPolicyVersion!= nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()
```

```
if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 return nil
}, opts...)
if e!= nil {
 return nil, e
return resp, nil
}
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
params := url.Values{ }
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))
```

```
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
 baseUrl.Path = settings.Path
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return err
}
httpReq = httpReq.WithContext(ctx) \\
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e!= nil {
return nil, e
op := &Operation{
&globalOperationsHandle{
       c.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 debiancloud 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 ("return Partial Success", fmt. Sprintf ("\%v", req. Get Return Partial Success ())) \\
 }
 baseUrl.RawQuery = params.Encode()
 // Build HTTP headers from client and context metadata.
```

```
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e!= nil {
 return nil, "", e
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int, pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
 return "", err
it.items = append(it.items, items...)
return nextPageToken, nil
}
```

```
it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context, Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
```

```
return err
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e!= nil {
 return nil, e
}
return resp, nil
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions).
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e!= nil {
 return nil, e
return resp, nil
// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
items []*computepb.License
pageInfo *iterator.PageInfo
```

```
nextFunc func() error
// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}
// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
return it.pageInfo
}
// Next returns the next result. Its second return value is iterator. Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
var item *computepb.License
if err := it.nextFunc(); err != nil {
 return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
func (it *LicenseIterator) bufLen() int {
return len(it.items)
func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
// Copyright 2023 Google LLC
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
```

//

```
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// 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 {
             []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"),
 internal option. With Default MTLSEndpoint ("https://compute.mtls.googleapis.com"),
 internaloption. With Default Audience ("https://compute.googleapis.com/"),
 internal option. With Default Scopes (Default Auth Scopes ()...),
}
}
// 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...)
ky = append(ky, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}
// Connection returns a connection to the API service.
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())
// 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).TestIamPermissions)
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
 baseUrl.Path = settings.Path
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return err
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
 }
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
```

```
return err
}

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

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

return resp, nil
}

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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
package compute test
import (
"context"
compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/computepb"
"google.golang.org/api/iterator"
func ExampleNewLicensesRESTClient() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
defer c.Close()
// TODO: Use client.
= c
}
func ExampleLicensesClient_Delete() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
defer c.Close()
```

```
req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}
func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
func ExampleLicensesClient_Insert() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
op, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}
func ExampleLicensesClient_List() {
ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
 break
if err != nil {
 // TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
}
func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
```

```
// TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
func ExampleLicensesClient TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
defer c.Close()
req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
// TODO: Use resp.
_{-} = resp
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// 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.
\underline{\phantom{a}} = 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
}
                   Apache License
               Version 2.0, January 2004
```

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# 1.46 jsonreference v0.20.0

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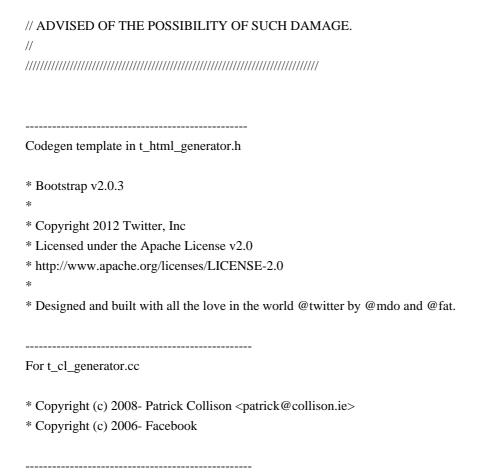
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# 1.53 prometheus-common v0.41.0

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# 1.54 gophercloud v1.1.1

### 1.54.1 Available under license:

package RESOURCE

```
import (
"github.com/gophercloud/gophercloud"
"github.com/gophercloud/gophercloud/pagination"
// RESOURCE represents...
type Resource struct {
}
type commonResult struct {
gophercloud.Result
}
// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
commonResult
}
// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
```

```
commonResult
// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}
// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}
// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}
// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
 Links struct {
  Next string `json:"next"`
  Previous string `json:"previous"`
 } `json:"links"`
err := r.ExtractInto(\&s)
if err != nil {
 return "", err
return s.Links.Next, err
// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
 Resources []Resource `json: "resources"`
err := (r.(ResourcePage)).ExtractInto(&s)
```

```
return s.Resources, err
}
// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
 Resource *Resource `ison: "resource"`
err := r.ExtractInto(\&s)
return s.Resource, err
}
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
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). Copyright 2012-2013 Rackspace, Inc. Copyright Gophercloud authors
```

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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.

\_\_\_\_\_

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.

```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:
* IC - D II D
* 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.
The choice of filethod 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).
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.

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

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 testing
import (
"testing"
"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
"github.com/gophercloud/gophercloud/pagination"
th "github.com/gophercloud/gophercloud/testhelper"
"github.com/gophercloud/gophercloud/testhelper/client"
)
func TestListResources(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)
count := 0
err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
 count++
 actual, err := resources.ExtractResources(page)
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
 return true, nil
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
func TestListResourcesAllPages(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)
allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
func TestGetResource(t *testing.T) {
th.SetupHTTP()
```

```
defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)
actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
}
func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)
createOpts := resources.CreateOpts{
 Name: "resource two",
}
actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)
res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)
updateOpts := resources.UpdateOpts{
Description: "Staging Resource",
actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
package 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 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)
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 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 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.

\_\_\_\_\_

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](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"`
          string `json:"status"`
Status
Subnets
           []string `json:"subnets"`
TenantID
            string `json:"tenant_id"`
Shared
                 `json:"shared"`
           bool
}
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).

# 1.55 errwrap v1.0.0

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## 1.62 hashicorp-go-msgpack v0.5.3

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```
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// license that can be found in the LICENSE file.
//go:build go1.18
// +build go1.18
// Package copyright checks that files have the correct copyright notices.
package copyright
import (
 "go/ast"
 "go/parser"
"go/token"
"io/fs"
 "io/ioutil"
"path/filepath"
"regexp"
"strings"
)
func checkCopyright(dir string) ([]string, error) {
var files []string
err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
 if err != nil {
  return err
 }
```

```
if d.IsDir() {
 // Skip directories like ".git".
 if strings.HasPrefix(d.Name(), ".") {
  return filepath.SkipDir
 // Skip any directory that starts with an underscore, as the go
 // command would.
 if strings.HasPrefix(d.Name(), "_") {
  return filepath.SkipDir
 return nil
 needsCopyright, err := checkFile(dir, path)
 if err != nil {
 return err
 }
 if needsCopyright {
 files = append(files, path)
 }
 return nil
return files, err
}
var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
Use of this source code is governed by a BSD-style
license that can be found in the LICENSE file.`)
func checkFile(toolsDir, filename string) (bool, error) {
// Only check Go files.
if !strings.HasSuffix(filename, "go") {
 return false, nil
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
 return false, nil
// goyacc is the only file with a different copyright header.
if strings. HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
content, err := ioutil.ReadFile(filename)
if err != nil {
 return false, err
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
```

```
if err != nil {
 return false, err
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
 return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
  break
 }
 if copyrightRe.MatchString(c.Text()) {
  shouldAddCopyright = false
  break
 }
return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`//.*DO NOT EDIT\.?`)
func isGenerated(fset *token.FileSet, file *ast.File) bool {
for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {
  if matched := generatedRx.MatchString(comment.Text); !matched {
  continue
  // Check if comment is at the beginning of the line in source.
  if pos := fset.Position(comment.Slash); pos.Column == 1 {
  return true
  }
return false
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//go:build go1.18
// +build go1.18
```

```
import (
"os"
"path/filepath"
"strings"
"testing"
func TestToolsCopyright(t *testing.T) {
cwd, err := os.Getwd()
if err != nil {
t.Fatal(err)
tools := filepath.Dir(cwd)
if !strings.HasSuffix(filepath.Base(tools), "tools") {
t.Fatalf("current working directory is %s, expected tools", tools)
files, err := checkCopyright(tools)
if err != nil {
t.Fatal(err)
}
if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
}
```

## 1.66 tidwall/wal v1.1.7

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# 1.69 open-telemetry/opentelemetry-collectorcontrib processor/filterprocessor/v0.73.0

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# 1.70 cespare-xxhash v2.2.0

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Protocol Buffers for Go with Gadgets

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

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- \* Renamed files from civil\* to localtime\*.
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# 1.90 knadh/koanf v1.5.0

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# 1.92 leoluk/perflib\_exporter v0.2.0

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# 1.93 x-crypto v0.6.0

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# 1.94 go-hclog v1.4.0

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# 1.95 golang-github-spf13-pflag-dev v1.0.5

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# 1.96 open-telemetry/opentelemetry-collector-contrib processor/attributesprocessor/v0.73.0

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# 1.97 k8s-io-kube-openapi 20221207-snapshot-f3cff145

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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 license YAML = "name: the name \setminus nurl: the url \setminus n"
assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
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package spec

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

Name string `json:"name,omitempty"`

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

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## 1.109 opentelemetry-collector exporter/otlphttpexporter/v0.73.0

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## 1.111 github.com/yusufpapurcu/wmi v1.2.2

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## 1.120 matttproud-golang-protobuf-extensions v1.0.4

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## 1.122 hetznercloud/hcloud-go v1.39.0

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## 1.123 alecthomas-units 20211218-snapshotb94a6e3c

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## 1.124 github.com/golang-jwt/jwt v4.2.0

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## 1.125 tklauser/go-sysconf v0.3.11

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## 1.130 golang-protobuf v1.3.2

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# 1.132 open-telemetry/opentelemetry-collector-contrib internal/k8sconfig/v0.73.0

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# 1.134 jaeger v1.41.0

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# 1.135 mitchellh-go-homedir v1.1.0

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# 1.139 open-telemetry/opentelemetry-collector-contrib internal/filter/v0.73.0

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# 1.140 opentelemetry-collector receiver/otlpreceiver/v0.73.0

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# 1.141 protobuf v1.28.1

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# 1.152 microsoft-go-winio v0.5.2

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# 1.157 open-telemetry/opentelemetry-collector-contrib internal/aws/ecsutil/v0.73.0

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## 1.158 x-sys v0.6.0

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# 1.159 open-telemetry/opentelemetry-collector-contrib exporter/prometheusremotewriteexporter/v0.73.0

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# 1.162 open-telemetry/opentelemetry-collector-contrib exporter/prometheusexporter/v0.73.0

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# 1.165 jsoniter-go v1.1.12

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# 1.166 sean-/seed 20170313-snapshote2103e2c

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=====

Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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# 1.167 consul api/v1.19.1

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```
<div
...attributes
class="consul-intention-permission-header-form"
< Form Group
 @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"
     <el.Label>Header type</el.Label>
     <PowerSelect
      @options={{headerTypes}}
      @selected={ {headerType } }
      @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
       {{get headerLabels Type}}
     </PowerSelect>
```

```
<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</pre>
     @name="Value"
     @error={{changeset-get changeset 'error.Value'}}
     <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>
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1.1. Contributor
```

</group.Element>

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  the Mozilla Public License, v. 2.0.
<div
...attributes
class="consul-intention-permission-form"
< Form Group
@name=\{\{name\}\}
as |group|>
{{yield (hash
 submit=(action 'submit' changeset)
 reset=(action 'reset' changeset)
 isDirty=(and changeset.isValid)
 changeset=changeset
)}}
<fieldset>
  <div data-property="action">
  <span class="label">
    Should this permission allow the source connect to the destination?
  <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
    {{#each intents as |intent|}}
     <label>
      <span>{{capitalize intent}}</span>
      <input
       type="radio"
       name="Action"
       value={ {intent} }
       checked={{if (eq changeset.Action intent) 'checked'}}
       onchange={{action (changeset-set changeset 'Action') value="target.value"}}
      />
     </label>
    { {/each } }
  </div>
  </div>
```

```
</fieldset>
<fieldset>
 <header>
  <h2>Path</h2>
 </header>
 <div>
    <group.Element
     @name="PathType"
     @type="select"
   as |el|>
     <el.Label>
      Path type
     </el.Label>
     <PowerSelect
      @options={{pathTypes}}
      @selected={{pathType}}}
      @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
       {{get pathLabels Type}}
     </PowerSelect>
    </group.Element>
{{#if shouldShowPathField}}
    <group.Element
     @name="Path"
     @error={{changeset-get changeset 'error.HTTP.Path'}}
    as |el|>
     <el.Label>
      {{get pathLabels pathType}}
     </el.Label>
     <el.Text
      @value={{changeset-get changeset 'HTTP.Path'}}
      oninput={{action 'change' 'HTTP.Path' changeset}}}
     />
     <State @state={{el.state}} @matches="error">
       {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
        Path Regex should not be blank
       {{else}}
        Path should begin with a '/'
       \{ \{/if\} \}
      </el.Error>
     </State>
    </group.Element>
\{\{/if\}\}
 </div>
</fieldset>
```

```
<fieldset>
 <h2>Methods</h2>
 <div class="type-toggle">
  <span>All methods are applied by default unless specified</span>
  <group.Element
    @name="allMethods"
  as |el|>
   <el.Checkbox
    checked={{if allMethods 'checked'}}
    onchange={{action 'change' 'allMethods' changeset}}
   <el.Label>
    All Methods
   </el.Label>
  </group.Element>
 </div>
{{#if shouldShowMethods}}
 <div class="checkbox-group" role="group">
  {{#each methods as |method|}}
   <label class="type-checkbox">
     <input
      type="checkbox"
      name="method"
      value={ {method} }
      checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
      onchange={ {action 'change' 'method' changeset } }
     <span>{{method}}</span>
   </label>
  { {/each } }
 </div>
\{ \{/if\} \}
</fieldset>
<fieldset>
 <h2>Headers</h2>
 <Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}
  @ondelete={{action 'delete' 'HTTP.Header' changeset}}
 as |headerList|>
 </Consul::Intention::Permission::Header::List>
 <Consul::Intention::Permission::Header::Form
  @onsubmit={{action 'add' 'HTTP.Header' changeset}}}
```

```
as |headerForm|>
   <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>
  <button
   data-test-add-header
   type="button"
   class="type-submit"
   disabled={{if (not this.headerForm.isDirty) 'disabled'}}
   onclick={{action this.headerForm.submit}}
   Add\{\{\#if\ (gt\ (get\ (changeset-get\ changeset\ 'HTTP.Header')\ 'length')\ 0)\}\}\ another\{\{/if\}\}\ header\}
  </button>
  <button
  type="button"
  class="type-cancel"
   onclick={{action this.headerForm.reset}}
   Cancel
  </button>
</fieldset>
</FormGroup>
</div>
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
> ul > li {
  @extend %list-row-200;
}
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 |
|-----|
                       |`none` |`none` |
NO'
            |`all`
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 |
|-----|
             `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.
                        Produces
| Method | Path
|-----|
| `DELETE` | `/operator/license` | `application/json` |
```

```
The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).
| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
|-----|
| `NO`
             \`none`
                          |`none` |`operator:write`|
The corresponding CLI command is [consul license reset](/consul/commands/license#reset).
### Query Parameters
- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.
### Sample Request
"``shell-session
$ curl \
 --request DELETE \
 http://127.0.0.1:8500/v1/operator/license
### Sample Response
```json
"Valid": true,
"License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
```

```
],
  "temporary": false
"Warnings": []
}
.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;
The MIT License (MIT)
```

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```
<Notice
@type="info"
as |notice|>
<notice.Body>
 >
  {{t "components.consul.intention.notice.permissions.body"}}
 </notice.Body>
<notice.Footer>
 >
  <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
    {{t "components.consul.intention.notice.permissions.footer"}}
  </a>
 </notice.Footer>
</Notice>
The MIT License (MIT)
```

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```
.consul-intention-permission-header-list {
   max-height: 200px;
   overflow: auto;
}
---
layout: docs
page_title: Storing the Enterprise License in Vault
```

```
description: >-
```

Configuring the Consul Helm chart to use an enterprise license stored in Vault.

---

# Storing the Enterprise License in Vault

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

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

Complete the following steps once:

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

Repeat the following steps for each datacenter in the cluster:

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

## ## Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes, you will need to have:

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

## Store the Secret in Vault

First, store the enterprise license in Vault:

```
""shell-session
$ vault kv put secret/consul/license key="<enterprise license>"
""
## Create Vault policy
```

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

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

```
<CodeBlockConfig filename="license-policy.hcl">

```HCL
path "secret/data/consul/license" {
```

```
capabilities = ["read"]
}
</CodeBlockConfig>
Apply the Vault policy by issuing the `vault policy write` CLI command:
""shell-session
$ vault policy write license-policy license-policy.hcl
## Create Vault Authorization Roles for Consul
Next, you will create Kubernetes auth roles for the Consul server and client:
""shell-session
$ vault write auth/kubernetes/role/consul-server \
 bound_service_account_names=<Consul server service account>\
 bound_service_account_namespaces=<Consul installation namespace> \
 policies=license-policy \
 ttl=1h
""shell-session
$ vault write auth/kubernetes/role/consul-client \
 bound service account names=<Consul client service account>\
 bound_service_account_namespaces=<Consul installation namespace> \
 policies=license-policy \
 ttl=1h
To find out the service account names of the Consul server and client,
you can run the following 'helm template' commands with your Consul on Kubernetes values file:
- Generate Consul server service account name
"shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f
values.yaml
- Generate Consul client service account name
""shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f
values.yaml
## Update Consul on Kubernetes Helm chart.
```

Now that you have configured Vault, you can configure the Consul Helm chart to use the enterprise 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.
@import './skin';
@import './layout';
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
@extend %list-row-200;
.consul-intention-permission-list:not(.readonly) > ul > li {
@extend %with-composite-row-intent;
.consul-intention-permission-list strong {
@extend %pill-500;
.consul-intention-permission-list .intent-allow {
@extend %pill-allow;
.consul-intention-permission-list .intent-deny {
@extend %pill-deny;
}
<div
class="notice {{or @type 'info'}}"
...attributes
```

```
{{yield (hash
Header=(component 'anonymous' tagName="header")
Body=(component 'anonymous')
Footer=(component 'anonymous' tagName="footer")
)}}
</div>
<Route
@name={{routeName}}
as |route|>
<DataLoader
 @src={{
  uri '/${partition}/${nspace}/${dc}/license'
  (hash
   partition=route.params.partition
   nspace=route.params.nspace
   dc=route.params.dc
  )
 }}
as |loader|>
{{#let
loader.data
as |item|}}
 <BlockSlot @name="error">
  <ErrorState
    @error={ {loader.error} }
    @login={{route.model.app.login.open}}
  />
 </BlockSlot>
 <BlockSlot @name="disconnected" as |after|>
  {{#if (eq loader.error.status "404")}}
    <Notice
     {{notification
      sticky=true
     }}
     class="notification-update"
     @type="warning"
    as |notice|>
     <notice.Header>
      <strong>Warning!</strong>
     </notice.Header>
     <notice.Body>
       This service has been deregistered and no longer exists in the catalog.
      </notice.Body>
    </Notice>
```

```
{{else if (eq loader.error.status "403")}}
  <Notice
   {{notification
    sticky=true
   }}
   class="notification-update"
   @type="error"
  as |notice|>
   <notice.Header>
    <strong>Error!</strong>
   </notice.Header>
   <notice.Body>
    >
     You no longer have access to this service
   </notice.Body>
  </Notice>
{{else}}
  <Notice
   \{\{notification
    sticky=true
   }}
   class="notification-update"
   @type="warning"
  as |notice|>
   <notice.Header>
    <strong>Warning!</strong>
   </notice.Header>
   <notice.Body>
    >
     An error was returned whilst loading this data, refresh to try again.
    </notice.Body>
  </Notice>
\{ \{/if\} \}
</BlockSlot>
<BlockSlot @name="loaded">
<div class="tab-section">
  <section
   class{=}\{\{class{-}map
    'validity'
    (array 'valid' item. Valid)
   }}
   <header>
    <h2>
     {{compute (fn route.t 'expiry.header')}}
```

```
</h2>
</header>
>
 {{compute (fn route.t 'expiry.${type}.body'
  (hash
   type=(if item.Valid 'valid' 'expired')
   date=(format-time item.License.expiration_time
    year='numeric'
    month='long'
    day='numeric'
   time=(format-time item.License.expiration_time
    hour12=true
    hour='numeric'
    hourCycle='h12'
    minute='numeric'
    second='numeric'
    timeZoneName='short'
   htmlSafe=true
  )
)}}
<dl>
 <dt class={{class-map
   (array 'valid' item. Valid)
   (array 'expired' (not item.Valid))
   (array 'warning' (temporal-within item.License.expiration_time 2629800000))
  }}
  {{compute (fn route.t 'expiry.${type}.header'
   (hash
    type=(if item.Valid 'valid' 'expired')
  )}}
 </dt>
 < dd >
  {{temporal-format item.License.expiration_time}}
 </dd>
</dl>
<aside>
 <header>
  <h3>
   {{compute (fn route.t 'documentation.title')}}
  </h3>
```

```
</header>
      {{compute (fn route.t 'documentation.body'
       (hash
        htmlSafe=true
       )
      )}}
     </aside>
   </section>
  </div>
 </BlockSlot>
{ {/let } }
</DataLoader>
</Route>
.consul-intention-permission-list {
.detail > div {
 display: flex;
 width: 100%;
}
strong {
 margin-right: 8px;
"Valid": true,
"License": {
 "license_id": "${fake.random.uuid()}",
 "customer_id": "${fake.random.uuid()}",
 "installation_id": "*",
 "issue_time": "2021-01-13T15:25:19.052900132Z",
 "start_time": "2021-01-13T00:00:00Z",
 "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
 "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
 "product": "consul",
 "flags": {
  "modules": [
    "global-visibility-routing-scale",
   "governance-policy"
  ]
 },
 "modules": [
  "Global Visibility, Routing and Scale",
  "Governance and Policy"
 ],
 "features": [
  "Automated Backups",
  "Automated Upgrades",
  "Enhanced Read Scalability",
```

```
"Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation",
   "Namespaces",
   "SSO",
   "Audit Logging",
   "Admin Partitions"
 ]
},
"Warnings": [
]
.consul-intention-permission-header-list {
dt::before {
  @extend %with-glyph-icon;
 content: 'H':
}
}
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?

\*\*YesConsul 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.

## 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](https://consul.io/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](https://consul.io/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

```
Node A: v1.9.5Node B: v1.10.0 [Leader]Node C: v1.9.5
```

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.

This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.

You will need to add the following configuration.

```
server:
enterpriseLicense:
enableLicenseAutoload: false

package api

import (
   "io"
   "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 `ison:"installation id"`
// The time at which the license was issued
IssueTime time.Time `ison:"issue time"`
// The time at which the license starts being valid
StartTime time.Time `json:"start time"`
// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"`
// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`
// Whether the license will ignore termination
IgnoreTermination bool `json:"ignore_termination"`
// The product the license is valid for
Product string `json:"product"`
// License Specific Flags
Flags map[string]interface{} `json:"flags"`
// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"`
// List of features enabled by the license
Features []string `json:"features"`
type LicenseReply struct {
Valid bool
License *License
Warnings []string
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
 return nil, err
} else {
```

```
return &reply, nil
}
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
r := op.c.newRequest("GET", "/v1/operator/license")
r.params.Set("signed", "1")
r.setQueryOptions(q)
_, resp, err := op.c.doRequest(r)
if err != nil {
 return "", err
defer closeResponseBody(resp)
if err := requireOK(resp); err != nil {
 return "", err
}
data, err := io.ReadAll(resp.Body)
if err != nil {
 return "", err
return string(data), nil
// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("DELETE", "/v1/operator/license")
r.setWriteOptions(opts)
_, resp, err := op.c.doRequest(r)
if err != nil {
 return nil, err
defer closeResponseBody(resp)
if err := requireOK(resp); err != nil {
 return nil, err
if err := decodeBody(resp, &reply); err != nil {
 return nil, err
return &reply, nil
}
```

```
// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("PUT", "/v1/operator/license")
r.setWriteOptions(opts)
r.body = strings.NewReader(license)
, resp, err := op.c.doRequest(r)
if err != nil {
 return nil, err
}
defer closeResponseBody(resp)
if err := requireOK(resp); err != nil {
 return nil, err
}
if err := decodeBody(resp, &reply); err != nil {
 return nil, err
return &reply, nil
layout: docs
page_title: 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/nia/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
T.	
At or after expiration (before termination)   License retrieval attempt every 1 minute   Error-level log every 1	
minute	
At or after termination	Error-level log and exit   Error-level log and exit

 $\sim$  \*\*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.

# Proprietary License

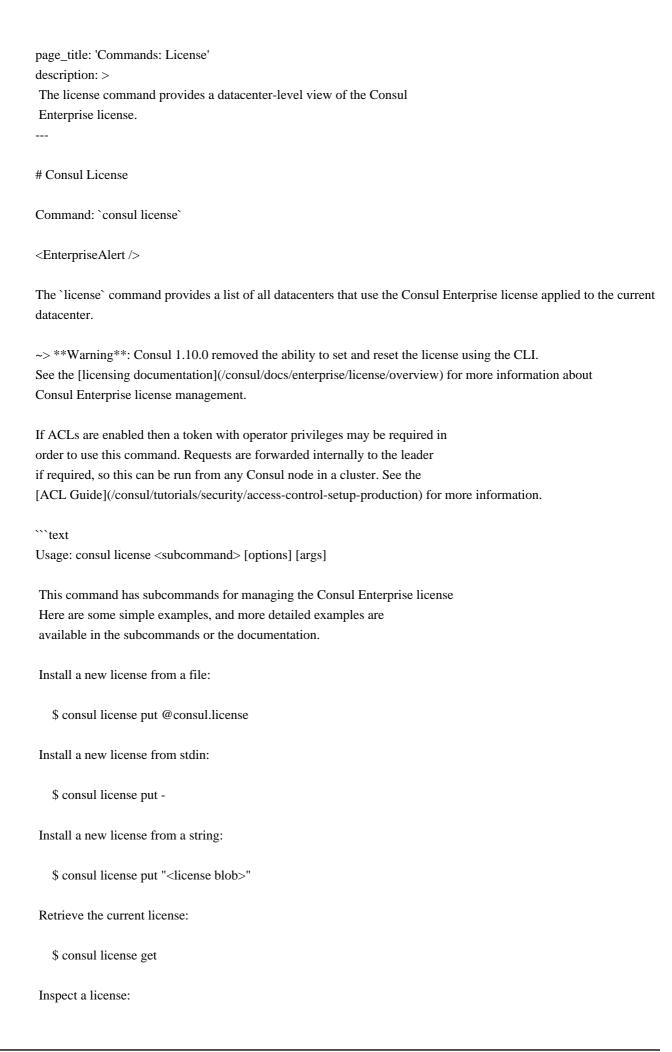
This license is temporary while a more official one is drafted. However, this should make it clear:

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---

layout: commands



```
$ 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 the active license
 get
 inspect Inspect a signed license
          Puts a new license in the datacenter
 put
          Resets the license in the datacenter
 reset
## inspect
This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.
Usage: `consul license inspect [<options>] [<license file>]`
Inspect a license contained in a file:
$ consul license inspect consul.hclic
Inspect a license loaded from the environment:
$ consul license inspect
This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.
The output looks like this:
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
```

Installation ID: \* Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC Start Time: 2020-09-14 00:00:00 +0000 UTC Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC Termination Time: 2021-09-14 23:59:59.999 +0000 UTC Modules: Global Visibility, Routing and Scale Governance and Policy Features: Automated Backups **Automated Upgrades Enhanced Read Scalability** Network Segments Redundancy Zone Advanced Network Federation Namespaces SSO **Audit Logging Admin Partitions** License is valid ## put -> \*\*Deprecated\*\* The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release. Corresponding HTTP API Endpoint: [\[PUT\]] /v1/operator/license](/consul/api-docs/operator/license#updating-theconsul-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.
The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).
Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.
| ACL Required |
|-----|
\`none`
Usage: `consul license get [options]`
The output looks like this:
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
```

```
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
#### API Options
@include 'http_api_options_client.mdx'
@include 'http_api_options_server.mdx'
## reset
-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.
Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-
the-consul-license)
Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.
The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).
Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.
ACL Required
|-----|
| `operator:write` |
Usage: `consul license reset [options]`
The output looks like this:
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
```

```
Licensed Features:
    Automated Backups
   Automated Upgrades
   Enhanced Read Scalability
   Network Segments
   Redundancy Zone
   Advanced Network Federation
#### API Options
@include 'http_api_options_client.mdx'
@include 'http_api_options_server.mdx'
{{#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">
       >
        Are you sure you want to delete this header?
```

```
</BlockSlot>
      <BlockSlot @name="confirm" as |Confirm|>
       <Confirm>Delete</Confirm>
      </BlockSlot>
     </Confirmation>
    </BlockSlot>
   </Action>
 </Actions>
</BlockSlot>
</ListCollection>
\{ \{/if\} \}
# License
"hbs preview-template
<figure>
<figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
<DataSource
  @src={ {
   uri '/${partition}/${nspace}/${dc}/license'
   (hash
    partition='partition'
    nspace='ns'
    dc='dc-1'
   )
  }}
  @onchange={{action (mut data) value="data"}}
<code>{ {json-stringify data null 4} }</code>
</figure>
.consul-intention-permission-list {
dt::before {
  @extend %with-glyph-icon;
dl.permission-methods dt::before {
 content: 'M';
}
dl.permission-path dt::before {
 content: 'P';
dl.permission-header dt::before {
 content: 'H';
}
section[data-route='dc.show.license'] {
@extend %license-route;
}
%license-route .validity {
```

```
@extend %license-validity;
%license-route aside {
@extend %license-route-learn-more;
%license-route h2 {
@extend %h200;
%license-validity p {
color: rgb(var(--tone-gray-700));
%license-validity dl {
@extend %horizontal-kv-list;
font-size: var(--typo-size-400);
%license-validity dl .expired + dd {
@extend %visually-hidden;
%license-validity dl dt::before {
content: ";
margin-right: 0.25rem; /* 4px */
%license-validity dl .expired::before {
--icon-name: icon-x-circle;
--icon-color: rgb(var(--red-500));
%license-validity dl .warning::before {
--icon-name: icon-alert-circle;
--icon-color: rgb(var(--orange-500));
%license-validity dl .valid:not(.warning)::before {
--icon-name: icon-check-circle;
--icon-color: rgb(var(--green-500));
%license-route-learn-more {
@extend %panel;
box-shadow: var(--decor-elevation-000);
padding: var(--padding-y) var(--padding-x);
width: 40%;
min-width: 413px;
margin-top: 1rem; /* 16px */
%license-route-learn-more header > :first-child {
@extend %h300;
}
```

```
%license-route-learn-more header {
margin-bottom: 1rem; /* 16px */
%license-route-learn-more li {
margin-bottom: 0.25rem; /* 4px */
%license-route-learn-more a::before {
--icon-name: icon-docs-link;
content: ";
margin-right: 0.375rem; /* 6px */
}
lavout: 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

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-enterpriselicense?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/configfiles#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.

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

```
.agentless-node-notice header {
display: flex;
justify-content: space-between;
{{#if (gt items.length 0)}}
<ListCollection
class="consul-intention-permission-list{{if (not onclick) ' readonly'}}}"
@scroll="native"
@items={{items}}
@partial=\{\{5\}\}
as |item|>
<BlockSlot @name="details">
 <div onclick={{action (optional onclick) item}}>
  <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}/strong>
{{#if (gt item.HTTP.Methods.length 0)}}
    <dl class="permission-methods">
     < dt >
      <Tooltip>
       Methods
      </Tooltip>
     </dt>
     < dd >
{{#each item.HTTP.Methods as |item|}}
      {{item}}
{ {/each } }
     </dd>
    </dl>
\{ \{/if\} \}
{ {#if item.HTTP.Path } }
    <dl class="permission-path">
     < dt >
      <Tooltip>
       {{item.HTTP.PathType}}
      </Tooltip>
     </dt>
     < dd >
      {{item.HTTP.Path}}
     </dd>
   </dl>
\{ \{/if\} \}
{{#each item.HTTP.Header as |item|}}
```

```
<dl class="permission-header">
     < dt >
      <Tooltip>
       Header
      </Tooltip>
     </dt>
     < dd >
      {{item.Name}} {{route-match item}}
    </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">
        Are you sure you want to delete this permission?
       </BlockSlot>
      <BlockSlot @name="confirm" as |Confirm|>
       <Confirm>Delete</Confirm>
      </BlockSlot>
     </Confirmation>
    </BlockSlot>
  </Action>
 </Actions>
</BlockSlot>
\{ \{/if\} \}
</ListCollection>
\{\{/if\}\}
# Notice
```

Presentational component for informational/warning/error banners/notices.

```
"hbs preview-template
<Notice
@type={{this.type}}
as |notice|>
<notice.Header>
 <h3>Header</h3>
</notice.Header>
<notice.Body>
 Body
 </notice.Body>
<notice.Footer>
 >
   <a href="">Footer link</a>
 </notice.Footer>
</Notice>
<figure>
<figcaption>Provide a widget to change the <code>@type</code></figcaption>
<select
 onchange={{action (mut this.type) value="target.value"}}
  <option>info</option>
 <option>success</option>
 <option>warning</option>
  <option>error</option>
</select>
</figure>
## Arguments
| Argument/Attribute | Type | Default | Description |
|---|---|
| `type` | `String` | `info` | Type of notice [info\|warning\|error] |
## See
- [Template Source Code](./index.hbs)
```

```
%notice {
position: relative;
padding: 0.8rem;
%notice header {
margin-bottom: 0.1rem;
%notice header > * {
margin-bottom: 0;
%notice p {
margin-bottom: 0.3rem;
line-height: 1.4;
/* this is probably skin */
%notice {
padding-left: calc(0.8rem + 1.4rem);
%notice::before {
position: absolute;
top: 0.8rem;
left: 0.6rem;
font-size: 1rem;
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distributed with this project, you can obtain one at http://mozilla.org/MPL/2.0/.
<Notice
class="consul-intention-notice-custom-resource crd"
...attributes
@type={{or @type "info"}}
as |notice|>
<notice.Header>
  <h3>
   Intention Custom Resource
 </h3>
</notice.Header>
<notice.Body>
 >
   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.
 </notice.Body>
<notice.Footer>
   <a href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds" target="_blank" rel="noopener noreferrer">Learn more
```

```
about CRDs</a>
 </notice.Footer>
</Notice>
.consul-intention-permission-form {
 border-top: 1px solid rgb(var(--tone-blue-500));
 @extend %h200;
button.type-submit {
 @extend %frame-blue-300;
button.type-submit:hover:not(:disabled),
button.type-submit:focus:not(:disabled) {
 @extend %frame-blue-500;
button.type-submit:disabled {
 @extend %frame-blue-200;
}
}
.consul-intention-view {
h2 {
 @extend %h200;
}
%notice {
border-radius: var(--decor-radius-100);
border: var(--decor-border-100);
color: rgb(var(--tone-gray-999));
%notice::before {
@extend %as-pseudo;
%notice header > * {
@extend %h300;
%notice footer * {
@extend %p3;
font-weight: var(--typo-weight-bold);
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
@extend %notice;
```

```
%notice-success {
background-color: rgb(var(--tone-green-050));
border-color: rgb(var(--tone-green-500));
%notice-success header * {
color: rgb(var(--tone-green-800));
%notice-info {
border-color: rgb(var(--tone-blue-100));
background-color: rgb(var(--tone-blue-010));
%notice-info header * {
color: rgb(var(--tone-blue-700));
%notice-highlight {
background-color: rgb(var(--tone-gray-050));
border-color: rgb(var(--tone-gray-300));
%notice-info header * {
color: rgb(var(--tone-blue-700));
%notice-warning {
border-color: rgb(var(--tone-yellow-100));
background-color: rgb(var(--tone-yellow-050));
%notice-warning header * {
color: rgb(var(--tone-yellow-800));
%notice-error {
background-color: rgb(var(--tone-red-050));
border-color: rgb(var(--tone-red-500));
%notice-error header * {
color: rgb(var(--tone-red-500));
%notice-success::before {
@extend %with-check-circle-fill-mask;
color: rgb(var(--tone-green-500));
%notice-info::before {
@extend %with-info-circle-fill-mask;
color: rgb(var(--tone-blue-500));
%notice-highlight::before {
@extend %with-star-fill-mask;
color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
```

```
@extend %with-alert-triangle-mask;
color: rgb(var(--tone-orange-500));
%notice-error::before {
@extend %with-cancel-square-fill-mask;
color: rgb(var(--tone-red-500));
@import './skin';
@import './layout';
%notice {
margin: 1em 0;
/**/
.notice.success {
@extend %notice-success;
.notice.warning {
@extend %notice-warning;
.notice.error {
@extend %notice-error;
.notice.info {
@extend %notice-info;
.notice.highlight {
@extend %notice-highlight;
.notice.policy-management {
@extend %notice-highlight;
.notice.crd::before {
-webkit-mask-image: none;
mask-image: none;
background-color: transparent;
@extend %with-logo-kubernetes-color-icon;
{{#if isVisible}}
<Notice data-test-node-agentless-notice @type='info' class='agentless-node-notice' as |notice|>
  <notice.Header>
   <h3>
    {{t 'routes.dc.nodes.index.agentless.notice.header'}}
   <button type='button' aria-label='Dismiss notice' {{on 'click' this.dismissAgentlessNotice}}>
    <FlightIcon @name='x'/>
   </button>
  </notice.Header>
```

```
<notice.Body>
  >
   {{t 'routes.dc.nodes.index.agentless.notice.body'}}
  </notice.Body>
 <notice.Footer>
  href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
    target=' blank'
    rel='noopener noreferrer'
    {{t 'routes.dc.nodes.index.agentless.notice.footer'}}
   </a>
  </notice.Footer>
</Notice>
\{ \{/if\} \}
```

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# 1.177 jsonpatch v4.12.0

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# 1.178 googlecloudgo 20210117-snapshot

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.
package cloud
import (
"bytes"
"io/ioutil"
"os"
"path/filepath"
"strings"
"testing"
var sentinels = []string{
"Copyright",
"Google",
`Licensed under the Apache License, Version 2.0 (the "License");`,
func TestLicense(t *testing.T) {
t.Parallel()
skip := map[string]bool{
 // Automatically generated.
 "bigtable/cmd/cbt/cbtdoc.go": true,
 // BSD license, which is compatible, is embedded in the file.
 "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,
 // From https://github.com/golang/pkgsite.
 "third_party/pkgsite/print_type.go": true,
 "third_party/pkgsite/synopsis.go": true,
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
 if err != nil {
  return err
 }
```

```
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
 return nil
 }
if strings.HasSuffix(path, ".pb.go") {
 // .pb.go files are generated from the proto files.
 // .proto files must have license headers.
 return nil
if skip[path] {
 return nil
src, err := ioutil.ReadFile(path)
if err != nil {
 return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.
// Find license
for _, sentinel := range sentinels {
 if !bytes.Contains(src, []byte(sentinel)) {
 t.Errorf("%v: license header not present. want %q", path, sentinel)
 return nil
 }
return nil
})
if err != nil {
t.Fatal(err)
}
                    Apache License
                Version 2.0, January 2004
```

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# 1.179 mailru-easyjson v0.7.7

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# 1.180 inconshreveable-mousetrap v1.0.1

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# 1.182 open-telemetry-opentelemetry-collector-contrib zpages/v0.40.0

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# 1.183 opentelemetry-collector exporter/loggingexporter/v0.73.0

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## 1.202 mattn-go-colorable v0.1.12

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# 1.203 open-telemetry-opentelemetry-collector-contrib instrumentation/net/http/otelhttp/v0.40.0

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### 1.204 fatih-color v1.13.0

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# 1.207 open-telemetry/opentelemetry-collector-contrib pkg/translator/prometheusremotewrite/v0.73.

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

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### 1.211 googlecloudgo compute/metadata/v0.2.3

### 1.211.1 Available under license:

```
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
package compute_test
import (
"context"
compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/computepb"
"google.golang.org/api/iterator"
)
func ExampleNewLicensesRESTClient() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
defer c.Close()
// TODO: Use client.
_ = c
}
func ExampleLicensesClient_Delete() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
op, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}
err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}
func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
```

```
func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
func ExampleLicensesClient_Insert() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
op, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
```

```
err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}
}
func ExampleLicensesClient List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
defer c.Close()
req := \&computepb.ListLicensesRequest{}
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 if err != nil {
 // TODO: Handle error.
// TODO: Use resp.
 _{-} = resp
}
}
func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
```

```
defer c.Close()
req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
// TODO: Use resp.
_{-} = resp
}
func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
defer c.Close()
req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
// TODO: Use resp.
\underline{\phantom{a}} = \operatorname{resp}
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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
package compute
import (
"bytes"
"context"
"fmt"
"io/ioutil"
"math"
"net/http"
"net/url"
computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
 "google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
var newLicensesClientHook clientHook
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete
              []gax.CallOption
Get
             []gax.CallOption
GetIamPolicy
                  []gax.CallOption
Insert
              []gax.CallOption
List
             []gax.CallOption
SetIamPolicy
                 []gax.CallOption
TestIamPermissions []gax.CallOption
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
 Delete:
               []gax.CallOption{},
 Get:
               []gax.CallOption{},
 GetIamPolicy:
                   []gax.CallOption{},
```

```
Insert:
               []gax.CallOption{},
 List:
               []gax.CallOption{},
                   []gax.CallOption{},
 SetIamPolicy:
 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, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context, Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
TestIamPermissions(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"),
 internal option. With Default MTLS Endpoint ("https://compute.mtls.googleap is.com"), \\
 internaloption. With Default Audience ("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
 return err
}
return nil
}
```

```
// Connection returns a connection to the API service.
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context, Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
params := url.Values{}
if req!= nil && req.RequestId!= nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 defer httpRsp.Body.Close()
```

```
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e!= nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
       c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
return op, nil
}
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], \ opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
if settings.Path != "" {
  baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e!= nil {
 return nil, e
}
return resp, nil
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/% v/global/licenses/% v/getIamPolicy", req.GetProject(),
req.GetResource())
```

```
params := url.Values{ }
if req!= nil && req.OptionsRequestedPolicyVersion!= nil {
params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
 baseUrl.Path = settings.Path
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return err
 }
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }
return nil
```

```
}, opts...)
if e != nil {
 return nil, e
return resp, nil
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
params := url.Values{ }
if req!= nil && req.RequestId!= nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 httpReq = httpReq.WithContext(ctx)
```

```
httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e != nil {
 return nil, e
op := &Operation{
 &globalOperationsHandle{
        c.operationClient,
  proto: resp,
  project: req.GetProject(),
 },
return op, nil
}
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
```

```
if pageToken != "" {
req.PageToken = proto.String(pageToken)
if pageSize > math.MaxInt32 {
req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
params := url.Values{}
if req!= nil && req.Filter!= nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
if req!= nil && req.MaxResults!= nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
if req!= nil && req.OrderBy!= nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
if req != nil && req.ReturnPartialSuccess != nil {
params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
baseUrl.RawQuery = params.Encode()
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
```

```
}
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 return nil
 }, opts...)
 if e!= nil {
 return nil, "", e
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 it.items = append(it.items, items...)
 return nextPageToken, nil
it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
```

```
if err != nil {
return nil, err
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
 baseUrl.Path = settings.Path
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return err
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
 }
if err := unm.Unmarshal(buf, resp); err != nil {
```

```
return maybeUnknownEnum(err)
 }
 return nil
}, opts...)
if e!= nil {
 return nil, e
return resp, nil
}
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions).
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
```

```
httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 return nil
}, opts...)
if e!= nil {
 return nil, e
return resp, nil
}
// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
items []*computepb.License
pageInfo *iterator.PageInfo
nextFunc func() error
// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}
// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
```

```
}
// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
return it.pageInfo
// Next returns the next result. Its second return value is iterator. Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
var item *computepb.License
if err := it.nextFunc(); err != nil {
 return item, err
item = it.items[0]
it.items = it.items[1:]
return item, nil
func (it *LicenseIterator) bufLen() int {
return len(it.items)
}
func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
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```

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```
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.
// 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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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//
    https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
// 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
```

```
return &LicenseCodesCallOptions{
               []gax.CallOption{},
 Get:
 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, *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"),
 internal option. With Default MTLS Endpoint ("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax. Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
```

```
if err != nil {
return nil, err
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())
// 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 != "" {
 base Url. 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"))
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions).
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
```

```
defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}
return nil
}, opts...)
if e != nil {
return nil. e
return resp, nil
```

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# 1.212 open-telemetry/opentelemetry-collector-contrib internal/common/v0.73.0

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# 1.213 client-go v0.26.2

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Protocol Buffers for Go with Gadgets

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

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# 1.218 open-telemetry/opentelemetry-collector-contrib receiver/prometheusreceiver/v0.73.0

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## 1.219 mergo 0.3.12

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

fields:

site: string author: root

### 1.220 structured-merge-diff v4.2.3

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```
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  With Secondary Licenses, as defined by
  the Mozilla Public License, v. 2.0.
<div
...attributes
class="consul-intention-permission-form"
<FormGroup
@name={{name}}
as |group|>
{{yield (hash
 submit=(action 'submit' changeset)
 reset=(action 'reset' changeset)
 isDirty=(and changeset.isValid)
 changeset=changeset
)}}
<fieldset>
  <div data-property="action">
  <span class="label">
    Should this permission allow the source connect to the destination?
  <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
    {{#each intents as |intent|}}
     <label>
      <span>{{capitalize intent}}</span>
      <input
       type="radio"
       name="Action"
       value={{intent}}
       checked={{if (eq changeset.Action intent) 'checked'}}
       onchange={{action (changeset-set changeset 'Action') value="target.value"}}
      />
     </label>
    { {/each } }
```

```
</div>
 </div>
</fieldset>
<fieldset>
 <header>
  <h2>Path</h2>
 </header>
 <div>
    <group.Element</pre>
     @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</pre>
     @name="Path"
     @error={{changeset-get changeset 'error.HTTP.Path'}}
    as |el|>
     <el.Label>
      {{get pathLabels pathType}}
     </el.Label>
     <el.Text
      @value={{changeset-get changeset 'HTTP.Path'}}
      oninput={ {action 'change' 'HTTP.Path' changeset } }
     <State @state={{el.state}} @matches="error">
      <el.Error>
       {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
        Path Regex should not be blank
       {{else}}
        Path should begin with a '/'
       \{ \{/if\} \}
      </el.Error>
     </State>
    </group.Element>
\{ \{/if\} \}
```

```
</div>
</fieldset>
<fieldset>
 <h2>Methods</h2>
 <div class="type-toggle">
  <span>All methods are applied by default unless specified</span>
  <group.Element
    @name="allMethods"
  as |el|>
    <el.Checkbox
    checked={{if allMethods 'checked'}}
    onchange={{action 'change' 'allMethods' changeset}}
   />
   <el.Label>
    All Methods
   </el.Label>
  </group.Element>
 </div>
{{#if shouldShowMethods}}
 <div class="checkbox-group" role="group">
  {{#each methods as |method|}}
   <label class="type-checkbox">
     <input
      type="checkbox"
      name="method"
      value={{method}}
      checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
      onchange={{action 'change' 'method' changeset}}
    />
     <span>{{method}}</span>
   </label>
  { {/each } }
 </div>
\{ \{/if\} \}
</fieldset>
<fieldset>
 <h2>Headers</h2>
 <Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}}
  @ondelete={{action 'delete' 'HTTP.Header' changeset}}
 as |headerList|>
 </Consul::Intention::Permission::Header::List>
```

```
<Consul::Intention::Permission::Header::Form
   @onsubmit={{action 'add' 'HTTP.Header' changeset}}
 as |headerForm|>
   <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>
  <button
   data-test-add-header
   type="button"
   class="type-submit"
   disabled={{if (not this.headerForm.isDirty) 'disabled'}}
   onclick={{action this.headerForm.submit}}
   Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
  </button>
  <button
   type="button"
  class="type-cancel"
   onclick={{action this.headerForm.reset}}
   Cancel
  </button>
</fieldset>
</FormGroup>
</div>
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
> ul > li {
  @extend %list-row-200;
}
}
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.
```

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 |
|-----|
           | `all`
                       |`none` |`none` |
NO'
The corresponding CLI command is [`consul license get`](/consul/commands/license#get).
### Query Parameters
- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
This will default to the datacenter of the agent serving the HTTP request.
### Sample Request
""shell-session
$ curl \
 http://127.0.0.1:8500/v1/operator/license
### Sample Response
```json
"Valid": true.
"License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
```

```
"features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
 ],
  "temporary": false
},
"Warnings": []
## Updating the Consul License
-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.
This endpoint updates the Consul license and returns some of the
license contents as well as any warning messages regarding its validity.
| Method | Path
                      Produces
|-----|
| `PUT` | `/operator/license` | `application/json` |
The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).
| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
|-----|
NO'
            \`none`
                          \`none`
                                     operator:write
The corresponding CLI command is [`consul license put`](/consul/commands/license#put).
### Query Parameters
- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.
### Sample Payload
The payload is the raw license blob.
### Sample Request
```

```
"shell-session
$ curl \
 --request PUT \
 --data @consul.license \
 http://127.0.0.1:8500/v1/operator/license
### Sample Response
```json
"Valid": true.
"License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
 ],
 "temporary": false
},
"Warnings": []
}
## Resetting the Consul License
-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.
This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not
valid, the replace will fail.
| Method | Path
                        Produces
|-----|
```

```
| `DELETE` | `/operator/license` | `application/json` |
The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).
| Blocking Queries | Consistency Modes | Agent Caching | ACL Required
|-----|
NO`
             \`none`
                           \`none`
                                      | `operator:write` |
The corresponding CLI command is [consul license reset](/consul/commands/license#reset).
### Query Parameters
- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.
### Sample Request
""shell-session
$ curl \
 --request DELETE \
 http://127.0.0.1:8500/v1/operator/license
### Sample Response
```json
"Valid": true,
"License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
```

```
"Redundancy Zone",
   "Advanced Network Federation"
 ],
 "temporary": false
},
"Warnings": []
}
.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;
}
The MIT License (MIT)
```

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```
<Notice
@type="info"
as |notice|>
<notice.Body>
 >
  {{t "components.consul.intention.notice.permissions.body"}}
 </notice.Body>
<notice.Footer>
 >
  <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
   {{t "components.consul.intention.notice.permissions.footer"}}
  </a>
 </notice.Footer>
</Notice>
The MIT License (MIT)
```

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

--lavout:

layout: docs

page\_title: Storing the Enterprise License in Vault

description: >-

Configuring the Consul Helm chart to use an enterprise license stored in Vault.

---

# Storing the Enterprise License in Vault

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

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

Complete the following steps once:

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

Repeat the following steps for each datacenter in the cluster:

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

## ## Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes, you will need to have:

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

## Store the Secret in Vault

First, store the enterprise license in Vault:

""shell-session

\$ vault kv put secret/consul/license key="<enterprise license>"

٠.,

## 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
```

٠.,

## Update Consul on Kubernetes Helm chart.

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

```
<CodeBlockConfig filename="values.yaml">
```yaml
global:
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.
@import './skin';
@import './layout';
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
@extend %list-row-200;
.consul-intention-permission-list:not(.readonly) > ul > li {
@extend %with-composite-row-intent;
.consul-intention-permission-list strong {
@extend %pill-500;
.consul-intention-permission-list .intent-allow {
@extend %pill-allow;
.consul-intention-permission-list .intent-deny {
@extend %pill-deny;
}
```

```
<div
class="notice {{or @type 'info'}}"
...attributes
{{yield (hash
Header=(component 'anonymous' tagName="header")
Body=(component 'anonymous')
Footer=(component 'anonymous' tagName="footer")
)}}
</div>
<Route
@name={{routeName}}
as |route|>
<DataLoader
 @src={{
  uri '/${partition}/${nspace}/${dc}/license'
   partition=route.params.partition
   nspace=route.params.nspace
   dc=route.params.dc
  )
 }}
as |loader|>
{ {#let
loader.data
as |item|}}
 <BlockSlot @name="error">
  <ErrorState
    @error={ {loader.error} }
    @login={{route.model.app.login.open}}
  />
 </BlockSlot>
 <BlockSlot @name="disconnected" as |after|>
  {{#if (eq loader.error.status "404")}}
   <Notice
     {{notification
      sticky=true
     }}
     class="notification-update"
     @type="warning"
    as |notice|>
     <notice.Header>
      <strong>Warning!</strong>
     </notice.Header>
     <notice.Body>
      >
```

```
This service has been deregistered and no longer exists in the catalog.
    </notice.Body>
  </Notice>
 {{else if (eq loader.error.status "403")}}
  <Notice
   {{notification
    sticky=true
   }}
   class="notification-update"
   @type="error"
  as |notice|>
   <notice.Header>
    <strong>Error!</strong>
   </notice.Header>
   <notice.Body>
    >
     You no longer have access to this service
    </notice.Body>
  </Notice>
 {{else}}
  <Notice
   {{notification
    sticky=true
   class="notification-update"
   @type="warning"
  as |notice|>
   <notice.Header>
    <strong>Warning!</strong>
   </notice.Header>
   <notice.Body>
    >
     An error was returned whilst loading this data, refresh to try again.
    </notice.Body>
  </Notice>
 \{ \{/if\} \}
</BlockSlot>
<BlockSlot @name="loaded">
 <div class="tab-section">
  <section
   class={ {class-map
    'validity'
    (array 'valid' item. Valid)
   }}
```

```
<header>
 <h2>
  {{compute (fn route.t 'expiry.header')}}
 </h2>
</header>
>
 {{compute (fn route.t 'expiry.${type}.body'
  (hash
   type=(if item.Valid 'valid' 'expired')
   date=(format-time item.License.expiration_time
    year='numeric'
    month='long'
    day='numeric'
   time=(format-time item.License.expiration_time
    hour12=true
    hour='numeric'
    hourCycle='h12'
    minute='numeric'
    second='numeric'
    timeZoneName='short'
   htmlSafe=true
  )
)}}
<dl>
 <dt class={{class-map
   (array 'valid' item. Valid)
   (array 'expired' (not item.Valid))
   (array 'warning' (temporal-within item.License.expiration_time 2629800000))
  }}
  {{compute (fn route.t 'expiry.${type}.header'
    type=(if item.Valid 'valid' 'expired')
   )
  )}}
 </dt>
 <dd>
  {{temporal-format item.License.expiration_time}}
 </dd>
</dl>
<aside>
```

```
<header>
       <h3>
        {{compute (fn route.t 'documentation.title')}}
       </h3>
      </header>
      {{compute (fn route.t 'documentation.body'
       (hash
        htmlSafe=true
       )
     )}}
     </aside>
   </section>
  </div>
 </BlockSlot>
{ {/let } }
</DataLoader>
</Route>
.consul-intention-permission-list {
.detail > div {
 display: flex;
 width: 100%;
strong {
 margin-right: 8px;
"Valid": true,
"License": {
 "license_id": "${fake.random.uuid()}",
 "customer_id": "${fake.random.uuid()}",
 "installation_id": "*",
 "issue_time": "2021-01-13T15:25:19.052900132Z",
 "start_time": "2021-01-13T00:00:00Z",
 "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
 "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
 "product": "consul",
 "flags": {
  "modules": [
   "global-visibility-routing-scale",
   "governance-policy"
  ]
 },
 "modules": [
  "Global Visibility, Routing and Scale",
  "Governance and Policy"
 ],
```

```
"features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation",
   "Namespaces",
   "SSO",
   "Audit Logging",
   "Admin Partitions"
},
"Warnings": [
.consul-intention-permission-header-list {
dt::before {
  @extend %with-glyph-icon;
 content: 'H';
}
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?

\*\*YesConsul 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.

## 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](https://consul.io/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](https://consul.io/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: 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/nia/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 | Error-level log and exit | Error-level log and exit ~> \*\*Note\*\*: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-graceperiod-when-licenses-expire) behavior is the same as Consul Enterprise. # Proprietary License This license is temporary while a more official one is drafted. However, this should make it clear: The text contents of this website are MPL 2.0 licensed. The design contents of this website are proprietary and may not be reproduced or reused in any way other than to run the website locally. The license for the design is owned solely by HashiCorp, Inc. 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) 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) for more information.

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.

Usage: consul license <subcommand> [options] [args]

```
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 the active license
 get
 inspect Inspect a signed license
          Puts a new license in the datacenter
          Resets the license in the datacenter
 reset
## inspect
This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.
Usage: `consul license inspect [<options>] [<license file>]`
Inspect a license contained in a file:
$ consul license inspect consul.hclic
```

```
Inspect a license loaded from the environment:
$ consul license inspect
This will look at the CONSUL LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.
The output looks like this:
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
    Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions
License is valid
## put
-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.
```

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/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'
```

 $Corresponding \ HTTP \ API \ Endpoint: \ [\[GET\] / v1/operator/license] (/consul/api-docs/operator/license\#getting-the-consul-license)$ 

This command gets the Consul Enterprise license.

## get

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of

[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

```
| ACL Required |
|-----|
| `none`
Usage: `consul license get [options]`
The output looks like this:
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
#### API Options
@include 'http_api_options_client.mdx'
@include 'http_api_options_server.mdx'
## reset
-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.
Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-
the-consul-license)
Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.
The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).
Configuration of
```

[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)

are not supported from commands, but may be from the corresponding HTTP endpoint.

```
| ACL Required
|-----|
| `operator:write` |
Usage: `consul license reset [options]`
The output looks like this:
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
#### API Options
@include 'http_api_options_client.mdx'
@include 'http_api_options_server.mdx'
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"`
// 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
{{#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">
        Are you sure you want to delete this header?
```

```
</BlockSlot>
      <BlockSlot @name="confirm" as |Confirm|>
       <Confirm>Delete</Confirm>
      </BlockSlot>
     </Confirmation>
    </BlockSlot>
   </Action>
 </Actions>
</BlockSlot>
</ListCollection>
\{ \{/if\} \}
# License
"hbs preview-template
<figure>
<figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
<DataSource
  @src={{
   uri '/${partition}/${nspace}/${dc}/license'
    partition='partition'
   nspace='ns'
    dc='dc-1'
  )
  }}
  @onchange={{action (mut data) value="data"}}
<code>{ [json-stringify data null 4] }</code>
</figure>
.consul-intention-permission-list {
dt::before {
  @extend %with-glyph-icon;
dl.permission-methods dt::before {
 content: 'M';
dl.permission-path dt::before {
 content: 'P';
dl.permission-header dt::before {
 content: 'H';
}
section[data-route='dc.show.license'] {
@extend %license-route;
}
```

```
%license-route .validity {
@extend %license-validity;
%license-route aside {
@extend %license-route-learn-more;
%license-route h2 {
@extend %h200;
}
%license-validity p {
color: rgb(var(--tone-gray-700));
%license-validity dl {
@extend %horizontal-kv-list;
font-size: var(--typo-size-400);
%license-validity dl .expired + dd {
@extend %visually-hidden;
%license-validity dl dt::before {
content: ";
margin-right: 0.25rem; /* 4px */
%license-validity dl .expired::before {
--icon-name: icon-x-circle;
--icon-color: rgb(var(--red-500));
%license-validity dl .warning::before {
--icon-name: icon-alert-circle;
--icon-color: rgb(var(--orange-500));
%license-validity dl .valid:not(.warning)::before {
--icon-name: icon-check-circle;
--icon-color: rgb(var(--green-500));
}
%license-route-learn-more {
@extend %panel;
box-shadow: var(--decor-elevation-000);
padding: var(--padding-y) var(--padding-x);
width: 40%;
min-width: 413px;
margin-top: 1rem; /* 16px */
%license-route-learn-more header > :first-child {
@extend %h300;
```

```
| % license-route-learn-more header {
| margin-bottom: Irem; /* 16px */ |
| % license-route-learn-more li {
| margin-bottom: 0.25rem; /* 4px */ |
| % license-route-learn-more a::before {
| --icon-name: icon-docs-link;
| content: ";
| margin-right: 0.375rem; /* 6px */ |
| }
| ---
| 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
```

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

## Licensing Overview

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-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.

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.

```
.agentless-node-notice header {
display: flex;
justify-content: space-between;
{{#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">
       >
        Are you sure you want to delete this permission?
       </BlockSlot>
      <BlockSlot @name="confirm" as |Confirm|>
       <Confirm>Delete</Confirm>
      </BlockSlot>
     </Confirmation>
   </BlockSlot>
  </Action>
 </Actions>
</BlockSlot>
\{ \{/if\} \}
</ListCollection>
\{ \{/if\} \}
```

Presentational component for informational/warning/error banners/notices.

```
"hbs preview-template
<Notice
@type={{this.type}}
as |notice|>
<notice.Header>
 <h3>Header</h3>
</notice.Header>
<notice.Body>
 >
   Body
 </notice.Body>
<notice.Footer>
  >
   <a href="">Footer link</a>
</notice.Footer>
</Notice>
<figure>
<figcaption>Provide a widget to change the <code>@type</code></figcaption>
<select
 onchange={{action (mut this.type) value="target.value"}}
  <option>info</option>
 <option>success</option>
 <option>warning</option>
  <option>error</option>
</select>
</figure>
## Arguments
| Argument/Attribute | Type | Default | Description |
|---|---|
| `type` | `String` | `info` | Type of notice [info\|warning\|error] |
## See
- [Template Source Code](./index.hbs)
```

```
%notice {
position: relative;
padding: 0.8rem;
%notice header {
margin-bottom: 0.1rem;
%notice header > * {
margin-bottom: 0;
%notice p {
margin-bottom: 0.3rem;
line-height: 1.4;
/* this is probably skin */
%notice {
padding-left: calc(0.8rem + 1.4rem);
%notice::before {
position: absolute;
top: 0.8rem;
left: 0.6rem;
font-size: 1rem;
Copyright 2014-2018 HashiCorp, Inc.
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not
distributed with this project, you can obtain one at http://mozilla.org/MPL/2.0/.
<Notice
class="consul-intention-notice-custom-resource crd"
...attributes
@type={{or @type "info"}}
as |notice|>
<notice.Header>
 <h3>
   Intention Custom Resource
  </h3>
</notice.Header>
<notice.Body>
 >
   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.
  </notice.Body>
<notice.Footer>
```

```
>
          <\!\!a\,href="\{\{env\,'CONSUL\_DOCS\_URL'\}\}/k8s/crds"\,\,target="\_blank"\,\,rel="noopener\,\,noreferrer">Learn\,\,moreferrer="Learn\,\,moreferrer">Learn\,\,moreferrer="Learn\,\,moreferrer">Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer">Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,moreferrer="Learn\,\,morefer
about CRDs</a>
     </notice.Footer>
</Notice>
.consul-intention-permission-form {
 h2 {
     border-top: 1px solid rgb(var(--tone-blue-500));
      @extend %h200;
 button.type-submit {
      @extend %frame-blue-300;
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
      @extend %frame-blue-500;
 button.type-submit:disabled {
      @extend %frame-blue-200;
}
.consul-intention-view {
h2 {
      @extend %h200;
}
%notice {
 border-radius: var(--decor-radius-100);
 border: var(--decor-border-100);
 color: rgb(var(--tone-gray-999));
%notice::before {
 @extend %as-pseudo;
%notice header > * {
 @extend %h300;
%notice footer * {
 @extend %p3;
 font-weight: var(--typo-weight-bold);
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
```

```
@extend %notice;
%notice-success {
background-color: rgb(var(--tone-green-050));
border-color: rgb(var(--tone-green-500));
%notice-success header * {
color: rgb(var(--tone-green-800));
%notice-info {
border-color: rgb(var(--tone-blue-100));
background-color: rgb(var(--tone-blue-010));
%notice-info header * {
color: rgb(var(--tone-blue-700));
%notice-highlight {
background-color: rgb(var(--tone-gray-050));
border-color: rgb(var(--tone-gray-300));
%notice-info header * {
color: rgb(var(--tone-blue-700));
%notice-warning {
border-color: rgb(var(--tone-yellow-100));
background-color: rgb(var(--tone-yellow-050));
%notice-warning header * {
color: rgb(var(--tone-yellow-800));
%notice-error {
background-color: rgb(var(--tone-red-050));
border-color: rgb(var(--tone-red-500));
%notice-error header * {
color: rgb(var(--tone-red-500));
%notice-success::before {
@extend %with-check-circle-fill-mask;
color: rgb(var(--tone-green-500));
%notice-info::before {
@extend %with-info-circle-fill-mask;
color: rgb(var(--tone-blue-500));
%notice-highlight::before {
@extend %with-star-fill-mask;
color: rgb(var(--tone-yellow-500));
```

```
%notice-warning::before {
@extend %with-alert-triangle-mask;
color: rgb(var(--tone-orange-500));
%notice-error::before {
@extend %with-cancel-square-fill-mask;
color: rgb(var(--tone-red-500));
@import './skin';
@import './layout';
%notice {
margin: 1em 0;
/**/
.notice.success {
@extend %notice-success;
.notice.warning {
@extend %notice-warning;
.notice.error {
@extend %notice-error;
.notice.info {
@extend %notice-info;
.notice.highlight {
@extend %notice-highlight;
.notice.policy-management {
@extend %notice-highlight;
.notice.crd::before {
-webkit-mask-image: none;
mask-image: none;
background-color: transparent;
@extend %with-logo-kubernetes-color-icon;
{{#if isVisible}}
<Notice data-test-node-agentless-notice @type='info' class='agentless-node-notice' as |notice|>
 <notice.Header>
   < h3 >
    {{t 'routes.dc.nodes.index.agentless.notice.header'}}
   </h3>
   <br/><button type='button' aria-label='Dismiss notice' {{on 'click' this.dismissAgentlessNotice}}>
    <FlightIcon @name='x'/>
```

```
</button>
 </notice.Header>
 <notice.Body>
  >
   {{t 'routes.dc.nodes.index.agentless.notice.body'}}
 </notice.Body>
 <notice.Footer>
  href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
    target='_blank'
    rel='noopener noreferrer'
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# 1.223 opencontainers-go-digest 1.0.0

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# 1.234 github.com/go-kit/log v0.2.1

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# 1.240 jpillora-backoff 1.0.0

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