



Open Source Used In Workflow Manager Software 2.0.2

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Text Part Number: 78EE117C99-2779561571

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1.2 musl 1.2.4

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1.3 sqlite 3.46.0

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1.4 golang 1.23.2

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
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2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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=====

Distutils2 Contributors

=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

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

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs

- Pierre-Yves David
- Ned Deily
- Konrad DeLong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet
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- Amos Latteier
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- Hugo Lopes Tavares
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- Mathieu Perreault
- Guillaume Pratte
- Sean Reifschneider
- Antoine Reversat
- Arc Riley

- C. Anthony Risinger
- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c9

Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: <http://pypi.org/pypi/setuptools>

Author: Phillip J. Eby

Author-email: distutils-sig@python.org

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

.. contents:: **Table of Contents**

Installation Instructions

Windows
=====

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools\*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer, please be sure to also **uninstall that older version** via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy\_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

=====

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy\_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``\$prefix/bin`` for scripts), please use the ``.egg``-based installation approach described in the following section.

Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.
2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy\_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``, ``--install-dir``, and so on, following the ``.egg`` filename on the same command line. For example::

```
sh setuptools-0.6c9-py2.4.egg --prefix=~
```

You can use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially the section on custom installation locations`_.

.. _EasyInstall manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. _the section on custom installation locations: <http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations>

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python

(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make sure that an appropriate executable (``python2.3``, ``python2.4``, or ``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For example, doing the following at a Cygwin bash prompt will install setuptools for the **Windows** Python found at ``C:\Python24``:

```
ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4
```

Downloads

=====

All setuptools downloads can be found at the project's home page in the Python Package Index`. Scroll to the very bottom of the page to find the links.

.. the project's home page in the Python Package Index: <http://pypi.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. 0.6 branch: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. Python SVN sandbox: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

Using

Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- * `The EasyInstall user's guide and reference manual`_
- * `The setuptools Developer's Guide`_
- * `The pkg\_resources API reference`_
- * `Package Compatibility Notes`_ (user-maintained)
- * `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, **tested** patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: <http://bugs.python.org/setuptools/>
.. _Package Compatibility Notes: <http://peak.telecommunity.com/DevCenter/PackageNotes>
.. _The Internal Structure of Python Eggs: <http://peak.telecommunity.com/DevCenter/EggFormats>
.. _The setuptools Developer's Guide: <http://peak.telecommunity.com/DevCenter/setuptools>
.. _The pkg_resources API reference: <http://peak.telecommunity.com/DevCenter/PkgResources>
.. _The EasyInstall user's guide and reference manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

Credits

* The original design for the ``.egg`` format and the ``pkg\_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg\_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

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package copyright

```
import (  
    "bytes"  
    "internal/testenv"  
    "io"
```

```

"io/fs"
"os"
"path/filepath"
"testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
    []byte("// Code generated by "),
    []byte("// Code generated from "),
    []byte("// Created by cgo -cdefs"),
    []byte("// DO NOT EDIT\n// generated by:"),
    []byte("// Empty assembly file"),
    []byte("// Generated using cgo"),
    []byte("// Original source:\n/\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
    []byte("// created by cgo -cdefs"),
    []byte("// go run mkasm.go"),
    []byte("// mkerrors"),
    []byte("// mksys"),
    []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
    buf := make([]byte, 2048)
    filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
    d fs.DirEntry, err error) error {
        if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
            return filepath.SkipDir
        }
        switch filepath.Ext(d.Name()) {
        default:
            return nil
        case ".s", ".go":
            // check
        }

        f, err := os.Open(path)
        if err != nil {
            t.Error(err)
            return nil
        }
        defer f.Close()
        n, err := f.Read(buf)
        if err != nil && err != io.EOF {
            t.Error(err)
            return nil
        }
    }
}

```

```

b := buf[:n]
if bytes.Contains(b, copyright) {
    return nil
}
for _, ok := range permitted {
    if bytes.HasPrefix(b, ok) {
        return nil
    }
}
t.Errorf("%s: missing copyright notice", path)
return nil
})
}

```

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1.10 gax-go 2.14.1

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1.11 go-runewidth 0.0.14

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1.12 x-errors 0.0.0-20220907171357-04be3eba64a2

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1.13 go-compute-metadata 0.6.0

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

package compute_test

import (
    "context"

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

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

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```



```

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

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

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

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

func ExampleLicensesClient_Insert()

```

```

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

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

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

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

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {

```

```

resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*computepb.LicensesListResponse)
}
}

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

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

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically

```

generated and should be regarded as a code template only.

// It will require modifications to work:

// - It may require correct/in-range values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```
c, err := compute.NewLicensesRESTClient(ctx)
```

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

```
    // TODO: Handle error.
```

```
}
```

```
defer c.Close()
```

```
req := &computepb.TestIamPermissionsLicenseRequest{
```

```
    // TODO: Fill request struct fields.
```

```
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
```

```
}
```

```
resp, err := c.TestIamPermissions(ctx, req)
```

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

```
    // TODO: Handle error.
```

```
}
```

```
// TODO: Use resp.
```

```
_ = resp
```

```
}
```

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//go:build go1.23

package compute_test

import (

 "context"

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

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

)

func ExampleLicensesClient_List_all() {

 ctx := context.Background()

```

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

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"

```

```

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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

//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status

```

```

"google.golang.org/grpc/status"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]

```

```

if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

```

```

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
if x != nil {
return x.Name
}
return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
if x != nil {
return x.LicenseAssignmentProtocol
}
return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
if x != nil {
return x.AvailableLicenseCount
}
return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
if x != nil {
return x.TotalLicenseCount
}
return 0
}

```



```

// Request message for getting a
license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {

```

```

if x != nil {
    return x.Name
}
return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
    return ms
}

```

```

}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].

```

```

type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

unknownFields protoimpl.UnknownFields

// Required. License pool name.

Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`

// Required. Username.

// Format: `name@domain.com`.

Username []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`

}

func (x *UnassignRequest) Reset()

{

*x = UnassignRequest{}

mi :=

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

ms.StoreMessageInfo(mi)

}

func (x *UnassignRequest) String() string {

return protoimpl.X.MessageStringOf(x)

}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {

mi :=

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]

if x != nil {

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

if ms.LoadMessageInfo() == nil {

ms.StoreMessageInfo(mi)

}

return ms

}

return mi.MessageOf(x)

}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.

func (*UnassignRequest) Descriptor() ([]byte, []int) {

return

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

[]int{6}

}

func (x *UnassignRequest) GetParent() string {

if x != nil {

return

```

x.Parent
}
return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```



```

    if ms.LoadMessageInfo()
    == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
}

```

```

Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {

```

```

    return x.Username
}
return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {

```

```

*x = AssignmentProtocol_ManualAssignmentType{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    }

```

0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a, 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f, 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x64, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a, 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01, 0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,

0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e,
0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e,
0x74, 0x3a,
0x9a, 0x01, 0xea, 0x41, 0x96, 0x01, 0x0a, 0x3b, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f,
0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61,
0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50,
0x6f, 0x6f, 0x6c, 0x12, 0x3c, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f,
0x75, 0x6e, 0x74, 0x73, 0x2f, 0x7b, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x5f, 0x61, 0x63,
0x63, 0x6f, 0x75, 0x6e, 0x74, 0x7d, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x7b, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x7d, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f,
0x6c, 0x2a, 0x0c, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x73, 0x32,
0x0b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x30, 0x0a, 0x15,
0x47, 0x65, 0x74,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65,
0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x17, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01, 0x20,
0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x22, 0xc0,
0x01, 0x0a, 0x18, 0x55, 0x70, 0x64, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x62, 0x0a, 0x0c, 0x6c,
0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x70, 0x6f, 0x6f, 0x6c, 0x18, 0x01, 0x20, 0x01, 0x28,
0x0b, 0x32, 0x3a, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d,
0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x0b, 0x6c, 0x69, 0x63, 0x65,

0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12,
0x40, 0x0a, 0x0b, 0x75, 0x70, 0x64, 0x61, 0x74, 0x65, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x18, 0x02,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x1a, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x46, 0x69, 0x65, 0x6c, 0x64, 0x4d, 0x61, 0x73, 0x6b,
0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x0a, 0x75, 0x70, 0x64, 0x61, 0x74, 0x65, 0x4d, 0x61, 0x73,
0x6b, 0x22, 0x4f, 0x0a, 0x0d, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65,
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0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,

```

0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =

```

```

[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),           // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),          // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),         // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t

```

```

type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
-> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{

```

```

File:
protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
  NumEnums:    0,
  NumMessages: 13,
  NumExtensions: 0,
  NumServices: 1,
},
GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
  // Gets the license pool.
  GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
  // Updates the license pool if one exists for this Order.
  UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
  error)
  // Assigns a license to a user.
  Assign(ctx
  context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
  // Unassigns a license from a user.
  Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
  // Enumerates all users assigned a license.

```

```

EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts

```



```

...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
        in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

```

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible implementations.

```

type UnimplementedLicenseManagementServiceServer struct {
}

```

```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

```

```

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,

```

```

*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
}

```

```

}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
}

```

```

return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(EnumerateLicensedUsersRequest)
if err := dec(in); err != nil {
return nil, err
}
if
interceptor == nil {
return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
HandlerType: (*LicenseManagementServiceServer)(nil),
Methods: []grpc.MethodDesc{
{
MethodName: "GetLicensePool",
Handler:    _LicenseManagementService_GetLicensePool_Handler,
},
{
MethodName: "UpdateLicensePool",
Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
},
{
MethodName: "Assign",
Handler:    _LicenseManagementService_Assign_Handler,
},
{
MethodName: "Unassign",
Handler:    _LicenseManagementService_Unassign_Handler,
},
{
MethodName: "EnumerateLicensedUsers",

```

```

    Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
},
Streams: []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// limitations under the License.

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

package compute_test

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

```

```

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

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

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

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

```

```

}
// TODO: Use resp.
_ = resp
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

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

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {

```

```

Delete      []gax.CallOption
Get          []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,

```



```

Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
}
}

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

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

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

// Wrapper methods routed to the internal client.

```

```

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

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

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

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

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

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

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

```

```

(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
(*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

    // The http client.
    httpClient *http.Client

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

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

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

```

```

logger *slog.Logger
}

// 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,
logger:  internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

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

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

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

```

```

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gopic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

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

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

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

    baseUrl.RawQuery = params.Encode()

```

```

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

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

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

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners

```

who are creating Cloud Marketplace images.

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

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

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

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

```

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

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

    baseUrl.RawQuery = params.Encode()

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
        if err != nil {
            return err
        }
    })

```



```

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

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

// 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 *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

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

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &compute.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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
if err != nil {
    return err
}

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

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

```

// 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 *compute.LicenseListRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.LicenseListRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicenseListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
    }
}

```

```

if pageSize > math.MaxInt32
{
    req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

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

baseUrl.RawQuery = params.Encode()

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }

```

```

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

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

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

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

return it
}

```

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

```

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

```

```

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

```

```

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

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

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

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

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

```

```

m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

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

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

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

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

```

```

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

```

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

package procurement_test

import (
"context"

procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"

```

longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
"google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        //

```

TODO: Use resp.

```
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}
```

```
func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
```

```
func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
```

```

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

req := &procurementpb.UnassignRequest{
// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
// TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

```



```

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                  2,
        "EVERYONE":               3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
}

```

```

return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{

```

```

"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":         2,
"READER":         3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference

```

```

// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,

```

0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
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0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,

```

0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GranteeType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
}

```

```

2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.14 go-sysconf 0.3.12

1.14.1 Available under license :

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1.15 xds-go 0.0.0-20250121191232-2f005788dc42

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1.16 httpsnoop 1.0.4

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1.17 libc 1.61.9

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1.18 go.einride.tech-pid 0.1.3

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1.19 go-control-plane 1.32.4

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1.20 go-diff lib 1.0.0

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1.21 gods 1.18.1

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1.22 bytearraypool 1.0.0

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1.23 go-auth-oauth2adapt 0.2.7

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    (
        // Verify that this generated code is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
        // Verify that runtime/protoimpl is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
    )

    // Defines types of the grantee of this permission.
    type Permission_GranteeType int32

    const (
        // The default value. This value is unused.
        Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
        // Represents a user. When set, you must provide email_address for the user.
        Permission_USER Permission_GranteeType = 1
        // Represents a group. When set, you must provide email_address for the
        // group.
        Permission_GROUP Permission_GranteeType = 2
        // Represents access to everyone. No extra information is required.
        Permission_EVERYONE Permission_GranteeType = 3
    )

```

```

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

```



```

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

```

```

}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"

```

```

json:"role,omitempty"
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

```

```

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,

```

```

0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =

```

```

protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
})
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
    return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File

```

```

file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

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

func ExampleLicensesClient_List_all() {
    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.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
// Copyright 2025 Google LLC
//
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"

```


)

```
func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}
```

```
func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}
```

```
func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
```

```

}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

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

```

```

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        // https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
        // quest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
    "context"

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

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

```

```

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

// TODO: Use client.
_ = c
}

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

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

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

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

```

```

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

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

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

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

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)

```



```

for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

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

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically

```

generated and should be regarded as a code template only.

// It will require modifications to work:

// - It may require correct/in-range values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```
c, err := compute.NewLicensesRESTClient(ctx)
```

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

```
    // TODO: Handle error.
```

```
}
```

```
defer c.Close()
```

```
req := &computepb.TestIamPermissionsLicenseRequest{
```

```
    // TODO: Fill request struct fields.
```

```
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
```

```
}
```

```
resp, err := c.TestIamPermissions(ctx, req)
```

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

```
    // TODO: Handle error.
```

```
}
```

```
// TODO: Use resp.
```

```
_ = resp
```

```
}
```

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package compute

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

"time"

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

```

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,

```



```

Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
}
}

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

```

```

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

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

// Wrapper methods routed to the internal client.

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

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

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

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

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

```

```

(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

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

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

```

```

// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

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

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

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

logger *slog.Logger
}

// 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,
        logger:    internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

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

```

```

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

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

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
// with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

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

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.

```

```

func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

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

    baseUrl.RawQuery = params.Encode()

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
        if err != nil {
            return err
        }

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

        return nil
    })

```

```

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

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

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {

```

```

    return err
}

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

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

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

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

    baseUrl.RawQuery = params.Encode()

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

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}

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

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

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

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

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

```

```

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

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

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

```

```
// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

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

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from
```

```

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

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

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

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

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This

```

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

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

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
        if err != nil {
            return err
        }
    })
    if

```

```

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

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

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }

```

```

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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
    return err
}

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

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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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/compute_pb"
)

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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```

```

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

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"

```

```

durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {

```

```

    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
    // Allow automatic assignments triggered by data plane operations.

```

```

AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if

```

```

x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
license pool.
type GetLicensePoolRequest struct {

```

```

state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. The name of the license pool to get.
// Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
}

```



```

return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

```

unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
// [LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.

```

```

Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
*x = UnassignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

```

```

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24

```



```

// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
if x != nil {
return x.Username
}
return ""
}

```

```

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func

```

```

(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
        0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
        0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
        0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
        0x6f,
    }

```

0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
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0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
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0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
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0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
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0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,

```

0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
}

```

```

(*UpdateLicensePoolRequest)(nil),          // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),                     // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),                   // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),                 // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),               // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil),    // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil),    // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),           // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),           // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),             // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest

```

```

4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

```

```

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums:    0,

```

```

    NumMessages: 13,
    NumExtensions: 0,
    NumServices: 1,
},
GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
    error)
    // Assigns a license to a user.
    Assign(ctx
    context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
    (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface

```

```

}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
}

```

```

}
return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

```



```

}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler

```

```

:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)

```

```

if err := dec(in); err != nil {
    return nil, err
}
if
interceptor == nil {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)


```

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {

```

```

return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[int]) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":         2,
"READER":         3,
}

```

```

}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState

```

```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be
// generated on create. Examples:
//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
    File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,

```

0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,

```

0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

```

```

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.24 otel 1.34.0

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man/bitstring.3bsd

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man/setmode.3bsd

man/strmode.3bsd

man/strnstr.3bsd

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man/strncpy.3bsd
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src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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src/getentropy_win.c
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1.32 libc 1.21.5

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1.34 alpine-keys 2.5-r0

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Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=alpine-keys

pkgver=2.5

pkgrel=0

pkgdesc="Public keys for Alpine Linux packages"

url="https://alpinelinux.org"

we install arch specific keys to /etc so we cannot do arch=noarch

arch="all"

license="MIT"

replaces="alpine-base"

1.35 python-requests 2.32.3

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1.36 gorilla/securecookie 1.1.1

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1.37 automaxprocs 1.6.0

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1.38 ringpop-go 0.0.0-20241119001152-e505ebd8f887

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1.39 golang-snappy 0.0.4

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1.40 dig 1.18.0

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1.41 protobuf-go 1.36.3

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1.42 multierr 1.8.0

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1.43 musl-obstack 1.2.3-r2

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1.44 go-json 0.10.5

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1.45 x-text 0.22.0

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1.46 thrift 0.16.0

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```
* /thrift-0-16-0-1-gem/data-tar-gz/spec/spec_helper.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/thin_http_server_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/binary_protocol_spec_shared.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/ssl_socket.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/struct_nested_containers_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/server_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/client_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/struct_union.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/socket_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/benchmark/client.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/struct.rb
*
* /thrift-0-16-0-1-gem/data-tar-gz/spec/nonblocking_server_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/exception_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/core_ext/fixnum.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/json_protocol.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/namespaced_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/unix_socket_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/ssl_socket_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/buffered_transport.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/http_client_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/json_protocol_spec.rb
```


- * /thrift-0-16-0-1-gem/data-tar-gz/spec/BaseService.thrift
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/multiplexed_processor.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/base_transport_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/nonblocking_server.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/thin_http_server.rb
- *
- /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/threaded_server.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/base_protocol_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/types.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/bytes.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/compact_protocol_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/flat_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/union.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/benchmark/thin_server.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/multiplexed_protocol.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/memory_buffer_transport.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/thrift_native.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/server_socket_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/base_server.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/mongrel_http_server.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/http_client_transport.rb
- *
- /thrift-0-16-0-1-gem/data-tar-gz/spec/binary_protocol_accelerated_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/serializer/deserializer.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/serializer/serializer.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/compact_protocol.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/unix_server_socket.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/thread_pool_server.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/types_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/socket_spec_shared.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/ssl_server_socket.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/struct_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/extconf.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/io_stream_transport.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/binary_protocol.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/base_server_transport.rb
- *
- /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/socket.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/core_ext.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/ssl_server_socket_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/binary_protocol_accelerated.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/protocol_decorator.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/spec/processor_spec.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/framed_transport.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/protocol/base_protocol.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/benchmark/benchmark.rb
- * /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/exceptions.rb

```

* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/base_transport.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/server_socket.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/ExtendedService.thrift
* /thrift-0-16-0-1-gem/data-tar-gz/spec/bytes_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/serializer_spec.rb
*
/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/server/simple_server.rb
* /thrift-0-16-0-1-gem/data-tar-gz/spec/binary_protocol_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/client.rb
* /thrift-0-16-0-1-gem/data-tar-gz/benchmark/server.rb
* /thrift-0-16-0-1-gem/data-tar-gz/benchmark/Benchmark.thrift
* /thrift-0-16-0-1-gem/data-tar-gz/spec/union_spec.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/transport/unix_socket.rb
* /thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/processor.rb
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```

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* /thrift-0-16-0-1-gem/data-tar-gz/ext/macros.h
* /thrift-0-16-0-1-gem/data-tar-gz/ext/constants.h
* /thrift-0-16-0-1-gem/data-tar-gz/ext/struct.h
*
/thrift-0-16-0-1-gem/data-tar-gz/ext/strncpy.h
* /thrift-0-16-0-1-gem/data-tar-gz/ext/binary_protocol_accelerated.h
* /thrift-0-16-0-1-gem/data-tar-gz/ext/memory_buffer.h
* /thrift-0-16-0-1-gem/data-tar-gz/ext/compact_protocol.h
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== DESCRIPTION:

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

== INSTALL:

```
$ gem install thrift
```

== CAVEATS:

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

== USAGE:

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

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- * /thrift-0-16-0-1-gem/data-tar-gz/README.md

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* /thrift-0-16-0-1-gem/data-tar-gz/spec/ThriftNamespacedSpec.thrift
 * /thrift-0-16-0-1-gem/data-tar-gz/spec/ThriftSpec.thrift
 * /thrift-0-16-0-1-gem/data-tar-gz/spec/Referenced.thrift

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Found in path(s):

- * /thrift-0-16-0-1-gem/data-tar-gz/ext/bytes.h
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/binary_protocol_accelerated.c
- *
- /thrift-0-16-0-1-gem/data-tar-gz/ext/bytes.c
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/struct.c
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/memory_buffer.c
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/strncpy.c
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/compact_protocol.c
- * /thrift-0-16-0-1-gem/data-tar-gz/ext/thrift_native.c

1.47 color 1.13.0

1.47.1 Available under license :

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1.48 go.uber.org/atomi 1.11.0

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1.49 driver-mysql 1.5.7

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1.50 htop 3.3.0-r0

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1.51 conc 0.3.0

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1.52 go.temporal.io-server 1.18.1-0.20230217005328-b313b7f58641

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1.53 mock 1.7.0-rc.1

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# Please keep the list sorted.

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

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

type Empty interface{}

```

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//

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// Source: input.go

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

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

// MockEmpty is a mock of Empty interface.

```
type MockEmpty struct {  
    ctrl    *gomock.Controller  
    recorder *MockEmptyMockRecorder  
}
```

// MockEmptyMockRecorder is the mock recorder for MockEmpty.

```
type MockEmptyMockRecorder struct {  
    mock *MockEmpty  
}
```

// NewMockEmpty creates a new mock instance.

```
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {  
    mock := &MockEmpty{ctrl: ctrl}  
    mock.recorder = &MockEmptyMockRecorder{mock}  
    return mock  
}
```

// EXPECT returns an object that allows the caller to indicate expected use.

```
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder  
{  
    return m.recorder  
}
```

1.54 sqlite 1.34.5

1.54.1 Available under license :

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1.55 c-ares 1.34.3-r0

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Version 3, 29 June 2007

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1.56 openssl 3.3.3-r0

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1.57 spf13-pflag 1.0.5

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1.58 otel-exporters-otlp-otlptrace 1.34.0

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1.59 prometheus-client 1.20.5

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1.60 go.temporal.io-api 1.18.1

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package spec

// License information for the exposed API.

//

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

type License struct {

 Name string `json:"name,omitempty"`

 URL string `json:"url,omitempty"`

}

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*/

package resources

var ContainerdApache2License = `

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

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[localtime.go](https://github.com/pelletier/localtime.go), [localtime_test.go](https://github.com/pelletier/localtime_test.go):

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Changes:

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

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go-jmespath

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1.62 perks 1.0.1

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1.63 xz 5.6.3-r0

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The

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1.64 easyjson 0.7.7

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    (
        // Verify that this generated code is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
        // Verify that runtime/protoimpl is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
    )

    // Defines types of the grantee of this permission.
```

```

type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

```



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func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string

```

```

{
return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be
// generated on create. Examples:
//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.

```

```

Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativeai.v1alpha.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativeai_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativeai_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativeai_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

```

```

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

```

```

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

```

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
}

```

0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,

```

0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
        (Permission_Role)(0),       // 1: google.ai.generativelanguage.v1alpha.Permission.Role
        (*Permission)(nil),         // 2: google.ai.generativelanguage.v1alpha.Permission
    }
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{

```

```

File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
  NumEnums: 2,
  NumMessages: 1,
  NumExtensions: 0,
  NumServices: 0,
},
  GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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```

```
//go:build go1.23

package compute_test

import (
    "context"

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

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```



```

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

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

// TODO: Use client.
_ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense

```

```

dUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }

```

```

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

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(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/compute_pb"
    "google.golang.org/api/iterator"
)

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

    // TODO: Use client.
    _ = c
}

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

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute_pb#DeleteLicenseRequest.
    }
}
```

```

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

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

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

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

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

```

```

defer c.Close()

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

```

```

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

```

```

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

```

```

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

```

```

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    only.
    // It will require modifications to work:

```



```

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

req := &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

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}

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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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

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

```

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,

```



```

    Max:    60000 * time.Millisecond,
    Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:    60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:    60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error

```

```

setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

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

//

// The Licenses API.

```
type LicensesClient struct {
```

// The internal transport-dependent client.

```
internalClient internalLicensesClient
```

// The call options for this service.

```
CallOptions *LicensesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicensesClient) Close() error {
```

```
    return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
    c.internalClient.setGoogleClientInfo(keyval...)
```

```
}
```

// Connection returns a connection

// to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

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

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

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

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```

```

}

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

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

    // The http client.
    httpClient *http.Client

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

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

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

    logger *slog.Logger
}

// 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,

```

```

    logger:    internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

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

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

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

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {

```

```

    return err
}
return nil
}

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

```

```

httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
if err != nil {
    return err
}

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

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

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

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

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

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

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

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

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

    baseUrl.RawQuery = params.Encode()

```



```

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds,
"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
return err
}

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

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

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

```

```

if err != nil {
    return nil, err
}

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

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

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

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

    return nil
}

```

```

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

```

// List retrieves the

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

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts

```

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

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
    }
}

```

```

if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

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

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

```

```

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

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

return it
}

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

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

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

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

```

```

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

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

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

// 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
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

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

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], 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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

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

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

```

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

//go:build go1.23

package compute_test

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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/compute_pb"
)

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

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
}
for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

```

```

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status
        "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
        &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {

```

```

isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
    AssignmentProtocol_AutoAssignmentType_struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

```

```

}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```



```

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

```

```

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.

```

```

    Ustreamnames []string `protobuf:"bytes,2,rep,name=streamnames,proto3" json:"streamnames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUstreamnames() []string {
    if x != nil {

```

```

    return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

```

```

}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

func (x *UnassignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
*x = UnassignResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {

```

```

ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState

```



```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Username.
// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
if x != nil {
return x.Username
}
return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
if x != nil {
return x.AssignTime
}
return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
if x != nil {
return x.RecentUsageTime
}
return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
state protoimpl.MessageState
sizeCache protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// The list of licensed users.
LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
// A token that can be sent as `page_token` to retrieve the next page.
// If this field is omitted, there are no subsequent pages.
NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
*x = EnumerateLicensedUsersResponse{}
mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
if x != nil {
return x.LicensedUsers
}
return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
if x != nil {
return x.NextPageToken
}
return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType

```

```

struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has

```

```

// passed, the license will be automatically unassigned from the user. Must
// be at least 7 days, if set. If unset, the license will never expire.
InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
*x = AssignmentProtocol_AutoAssignmentType{}
mi
:= &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
if x != nil {
return x.InactiveLicenseTtl
}
return nil
}

```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor
```

```
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
```

```
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
```

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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
}

```

```

return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil),          // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),          // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),         // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),       // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name

```

```

-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:
type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof

```

```

Wrappers = []any{
    (*AssignmentProtocol_ManualAssignmentType_)(nil),
    (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
type x struct{}
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)

```

```

// Assigns a license to a user.
Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {

```

```

    return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

```



```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {

```

```

in := new(UpdateLicensePoolRequest)
if err := dec(in); err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{

```

```

Server:   srv,
FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:   srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:   _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:   _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:   _LicenseManagementService_Assign_Handler,
        },
    },
}

```

```

{
  MethodName: "Unassign",
  Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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

// versions:

// protoc-gen-go v1.35.2


```

// protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
    }
)

```

```

"USER":          1,
"GROUP":         2,
"EVERYONE":      3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

```

```

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform

```

```

// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {

```

```

return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
}

```

```
return Permission_ROLE_UNSPECIFIED
}
```

```
var
```

```
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54,
    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
```

```

0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0),    // 1: google.ai.generativelanguage.v1beta.Permission.Role
}

```

```

(*Permission)(nil),      // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos:  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
    = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.66 otel-metric 0.34.0

1.66.1 Available under license :

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Version 2.0, January 2004

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1.67 go-md2man 2.0.4

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1.68 x-net 0.34.0

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1.69 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.70 gettext 0.22.5-r0

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined

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facilities. This must be distributed under the terms of the Sections above.

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```
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```

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1.73 go-immutable-radix 1.3.1

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1.74 auto-sdk 1.1.0

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package version

// Collection is a type that implements the sort.Interface interface

// so that versions can be sorted.

type Collection []*Version

```
func (v Collection) Len() int {  
    return len(v)  
}
```

```
func (v Collection) Less(i, j int) bool {  
    return v[i].LessThan(v[j])  
}
```

```
func (v Collection) Swap(i, j int) {  
    v[i], v[j] = v[j], v[i]  
}
```

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package version

```
import (  
    "reflect"  
    "sort"  
    "testing"  
)
```

```
func TestCollection(t *testing.T) {  
    versionsRaw := []string{  
        "1.1.1",  
        "1.0",  
        "1.2",  
        "2",  
        "0.7.1",  
    }  
}
```

```
versions := make([]*Version, len(versionsRaw))  
for i, raw := range versionsRaw {  
    v, err := NewVersion(raw)  
    if err != nil {  
        t.Fatalf("err: %s", err)  
    }  
  
    versions[i] = v  
}
```

```
sort.Sort(Collection(versions))
```

```
actual := make([]string, len(versions))
```

```

for i, v := range versions {
    actual[i] = v.String()
}

expected := []string{
    "0.7.1",
    "1.0.0",
    "1.1.1",
    "1.2.0",
    "2.0.0",
}

if !reflect.DeepEqual(actual, expected) {
    t.Fatalf("bad: %#v", actual)
}
}
name: go-tests

on: [push]

env:
    TEST_RESULTS: /tmp/test-results

jobs:

    go-tests:
        runs-on: ubuntu-latest
        strategy:
            matrix:
                go-version: [ 1.15.3, 1.19 ]

        steps:
            - name: Setup go
              uses: actions/setup-go@41dfa10bad2bb2ae585af6ee5bb4d7d973ad74ed # v5.1.0
              with:
                  go-version: ${ matrix.go-version }

            - name: Checkout code
              uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683 # v4.2.2

            - name: Create test directory
              run: |
                  mkdir -p ${ env.TEST_RESULTS }

            - name: Download go modules
              run: go mod download

            - name: Cache / restore go modules

```

```

uses: actions/cache@1bd1e32a3bdc45362d1e726936510720a7c30a57 # v4.2.0
with:
  path: |
    ~/go/pkg/mod
  key: ${{ runner.os }}-go-${{ hashFiles('**/go.sum') }}
  restore-keys: |
    ${{ runner.os }}-go-

# Check go fmt output because it does not report
non-zero when there are fmt changes
- name: Run gofmt
  run: |
    go fmt ./...
    files=$(go fmt ./...)
    if [ -n "$files" ]; then
      echo "The following file(s) do not conform to go fmt:"
      echo "$files"
      exit 1
    fi

# Install gotestsum with go get for 1.15.3; otherwise default to go install
- name: Install gotestsum
  run: |
    GTS="gotest.tools/gotestsum@v1.8.2"
    # We use the same error message prefix in either failure case, so just define it once here.
    ERROR="Failed to install $GTS"
    # First try to 'go install', if that fails try 'go get'...
    go install "$GTS" || go get "$GTS" || { echo "$ERROR: both 'go install' and 'go get' failed"; exit 1; }
    # Check that the gotestsum command was actually installed in the path...
    command -v gotestsum > /dev/null 2>&1 || { echo "$ERROR: gotestsum command not installed"; exit
1; }
    echo "OK: Command 'gotestsum' installed ($GTS)"

- name: Run go tests
  run: |
    PACKAGE_NAMES=$(go list ./...)
    gotestsum --format=short-verbose --junitfile $TEST_RESULTS/gotestsum-report.xml --
$PACKAGE_NAMES

# Save coverage report parts
- name: Upload and save artifacts
  uses: actions/upload-artifact@b4b15b8c7c6ac21ea08fcf65892d2ee8f75cf882 # v4.4.3
  with:
    name: Test Results
    path: ${{ env.TEST_RESULTS }}
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```

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Versioning Library for Go

![Build Status](https://github.com/hashicorp/go-version/actions/workflows/go-tests.yml/badge.svg)
[![GoDoc](https://godoc.org/github.com/hashicorp/go-version?status.svg)](https://godoc.org/github.com/hashicorp/go-version)

go-version is a library for parsing versions and version constraints,
and verifying versions against a set of constraints. go-version
can sort a collection of versions properly, handles prerelease/beta
versions, can increment versions, etc.

Versions used with go-version must follow [SemVer](http://semver.org/).

Installation and Usage

Package documentation can be found on
[GoDoc](http://godoc.org/github.com/hashicorp/go-version).

Installation can be done with a normal `go get`:

...

```
$ go get github.com/hashicorp/go-version
```

...

Version Parsing and Comparison

```
```go
```

```
v1, err := version.NewVersion("1.2")
```

```
v2, err := version.NewVersion("1.5+metadata")
```

```
// Comparison example. There is also GreaterThan, Equal, and just
// a simple Compare
```

```
that returns an int allowing easy >=, <=, etc.
```

```
if v1.LessThan(v2) {
```

```
 fmt.Printf("%s is less than %s", v1, v2)
```

```
}
...
```

#### #### Version Constraints

```
```go  
v1, err := version.NewVersion("1.2")  
  
// Constraints example.  
constraints, err := version.NewConstraint(">= 1.0, < 1.4")  
if constraints.Check(v1) {  
    fmt.Printf("%s satisfies constraints %s", v1, constraints)  
}  
...
```

Version Sorting

```
```go  
versionsRaw := []string{"1.1", "0.7.1", "1.4-beta", "1.4", "2"}
versions := make([]*version.Version, len(versionsRaw))
for i, raw := range versionsRaw {
 v, _ := version.NewVersion(raw)
 versions[i] = v
}

// After this, the versions are properly sorted
sort.Sort(version.Collection(versions))
...
```

#### ## Issues and Contributing

If you find an issue with this library, please report an issue. If you'd like, we welcome any contributions. Fork this library and submit a pull request.

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Data model artifacts for Prometheus.

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package version

```
import (
 "encoding/json"
 "fmt"
 "reflect"
 "testing"
)
```

```
func TestNewVersion(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"", true},
 {"1.2.3", false},
 {"1.0", false},
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 }
```

```

{"1.2-5", false},
{"1.2-beta.5", false},
{"\n1.2", true},
{"1.2.0-x.Y.0+metadata", false},
{"1.2.0-x.Y.0+metadata-width-hyphen", false},
{"1.2.3-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"1.2.0.4-x.Y.0+metadata", false},
{"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
{"1.2.0-X-1.2.0+metadata~dist", false},
{"1.2.3.4-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"v1.2.3", false},
{"foo1.2.3", true},
{"1.7rc2", false},
{"v1.7rc2", false},
{"1.0-", false},
}

```

```

for _, tc := range cases {
 _, err := NewVersion(tc.version)
 if tc.err && err == nil {
 t.Fatalf("expected error for version:
 %q", tc.version)
 } else if !tc.err && err != nil {
 t.Fatalf("error for version %q: %s", tc.version, err)
 }
}
}

```

```

func TestNewSemver(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"", true},
 {"1.2.3", false},
 {"1.0", false},
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 {"1.2-5", false},
 {"1.2-beta.5", false},
 {"\n1.2", true},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 }
}

```

```

{"1.2.3.4", false},
{"1.2.0.4-x.Y.0+metadata", false},
{"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
{"1.2.0-X-1.2.0+metadata~dist", false},
{"1.2.3.4-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"v1.2.3", false},
{"foo1.2.3", true},
{"1.7rc2", true},
{"v1.7rc2", true},
{"1.0-", true},
}

```

```

for _, tc := range cases {
 _, err := NewSemver(tc.version)
 if tc.err && err == nil {
 t.Fatalf("expected error for version: %q", tc.version)
 } else
 if !tc.err && err != nil {
 t.Fatalf("error for version %q: %s", tc.version, err)
 }
}
}

```

```

func TestCore(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 }{
 {"1.2.3", "1.2.3"},
 {"2.3.4-alpha1", "2.3.4"},
 {"3.4.5alpha1", "3.4.5"},
 {"1.2.3-2", "1.2.3"},
 {"4.5.6-beta1+meta", "4.5.6"},
 {"5.6.7.1.2.3", "5.6.7"},
 }
}

```

```

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("error for version %q: %s", tc.v1, err)
 }
 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("error for version %q: %s", tc.v2, err)
 }
}

```

```

actual := v1.Core()

```



```

expected := v2

if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
}
}
}

```

```

func TestVersionCompare(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected int
 }{
 {"1.2.3", "1.4.5", -1},
 {"1.2-beta", "1.2-beta", 0},
 {"1.2", "1.1.4", 1},
 {"1.2", "1.2-beta", 1},
 {"1.2+foo", "1.2+beta", 0},
 {"v1.2", "v1.2-beta",
1},
 {"v1.2+foo", "v1.2+beta", 0},
 {"v1.2.3.4", "v1.2.3.4", 0},
 {"v1.2.0.0", "v1.2", 0},
 {"v1.2.0.0.1", "v1.2", 1},
 {"v1.2", "v1.2.0.0", 0},
 {"v1.2", "v1.2.0.0.1", -1},
 {"v1.2.0.0", "v1.2.0.0.1", -1},
 {"v1.2.3.0", "v1.2.3.4", -1},
 {"1.7rc2", "1.7rc1", 1},
 {"1.7rc2", "1.7", -1},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", 1},
 }
}

```

```

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }
}

```

```

v2, err := NewVersion(tc.v2)
if err != nil {
 t.Fatalf("err: %s", err)
}

```

```

actual := v1.Compare(v2)
expected := tc.expected
if actual != expected {

```

```

t.Fatalf(
 "%s <=> %s\nexpected: %d\nactual: %d",
 tc.v1, tc.v2,
 expected, actual)
}
}
}

func TestVersionCompare_versionAndSemver(t *testing.T) {
 cases := []struct {
 versionRaw string
 semverRaw string
 expected int
 }{
 {"0.0.2", "0.0.2", 0},
 {"1.0.2alpha", "1.0.2-alpha", 0},
 {"v1.2+foo", "v1.2+beta", 0},
 {"v1.2", "v1.2+meta", 0},
 {"1.2",
"1.2-beta", 1},
 {"v1.2", "v1.2-beta", 1},
 {"1.2.3", "1.4.5", -1},
 {"v1.2", "v1.2.0.0.1", -1},
 {"v1.0.3-", "v1.0.3", -1},
 }

 for _, tc := range cases {
 ver, err := NewVersion(tc.versionRaw)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 semver, err := NewSemver(tc.semverRaw)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := ver.Compare(semver)
 if actual != tc.expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %d\n actual: %d",
 tc.versionRaw, tc.semverRaw, tc.expected, actual,
)
 }
 }
}

func TestVersionEqual_nil(t *testing.T) {

```

```

mustVersion := func(v string) *Version {
 ver, err := NewVersion(v)
 if err != nil {
 t.Fatal(err)
 }
 return ver
}

cases := []struct {
 leftVersion *Version
 rightVersion *Version
 expected bool
}{
 {mustVersion("1.0.0"), nil, false},
 {nil, mustVersion("1.0.0"), false},
 {nil, nil, true},
}

for _, tc := range cases {
 given := tc.leftVersion.Equal(tc.rightVersion)
 if given != tc.expected {
 t.Fatalf("expected
Equal to nil to be %t", tc.expected)
 }
}
}

```

```

func TestComparePreReleases(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected int
 }{
 {"1.2-beta.2", "1.2-beta.2", 0},
 {"1.2-beta.1", "1.2-beta.2", -1},
 {"1.2-beta.2", "1.2-beta.11", -1},
 {"3.2-alpha.1", "3.2-alpha", 1},
 {"1.2-beta.2", "1.2-beta.1", 1},
 {"1.2-beta.11", "1.2-beta.2", 1},
 {"1.2-beta", "1.2-beta.3", -1},
 {"1.2-alpha", "1.2-beta.3", -1},
 {"1.2-beta", "1.2-alpha.3", 1},
 {"3.0-alpha.3", "3.0-rc.1", -1},
 {"3.0-alpha3", "3.0-rc1", -1},
 {"3.0-alpha.1", "3.0-alpha.beta", -1},
 {"5.4-alpha", "5.4-alpha.beta", 1},
 {"v1.2-beta.2", "v1.2-beta.2", 0},
 {"v1.2-beta.1", "v1.2-beta.2", -1},
 {"v3.2-alpha.1", "v3.2-alpha", 1},
 }
}

```

```

{"v3.2-rc.1-1-g123", "v3.2-rc.2", 1},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual
:= v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %d\nactual: %d",
 tc.v1, tc.v2,
 expected, actual)
 }
}

func TestVersionMetadata(t *testing.T) {
 cases := []struct {
 version string
 expected string
 }{
 {"1.2.3", ""},
 {"1.2-beta", ""},
 {"1.2.0-x.Y.0", ""},
 {"1.2.0-x.Y.0+metadata", "metadata"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "metadata~dist"},
 }

 for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v.Metadata()
 expected := tc.expected
 if actual != expected {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
 }
}

```

```

 }
 }
}

func TestVersionPrerelease(t *testing.T) {
 cases := []struct {
 version string
 expected string
 }{
 {"1.2.3", ""},
 {"1.2-beta", "beta"},
 {"1.2.0-x.Y.0", "x.Y.0"},
 {"1.2.0-7.Y.0", "7.Y.0"},
 {"1.2.0-x.Y.0+metadata", "x.Y.0"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "metadata-1.2.0"},
 {"17.03.0-ce",
"ce"}, // zero-padded fields
 }

 for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v.Prerelease()
 expected := tc.expected
 if actual != expected {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
 }
}

func TestVersionSegments(t *testing.T) {
 cases := []struct {
 version string
 expected []int
 }{
 {"1.2.3", []int{1, 2, 3}},
 {"1.2-beta", []int{1, 2, 0}},
 {"1-x.Y.0", []int{1, 0, 0}},
 {"1.2.0-x.Y.0+metadata", []int{1, 2, 0}},
 {"1.2.0-metadata-1.2.0+metadata~dist", []int{1, 2, 0}},
 {"17.03.0-ce", []int{17, 3, 0}}, // zero-padded fields
 }

 for _, tc := range cases {
 v, err := NewVersion(tc.version)

```

```

if err != nil {
 t.Fatalf("err: %s", err)
}

actual := v.Segments()
expected := tc.expected
if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
}
}
}

func TestVersionSegments64(t *testing.T) {
 cases
 := []struct {
 version string
 expected []int64
 }{
 {"1.2.3", []int64{1, 2, 3}},
 {"1.2-beta", []int64{1, 2, 0}},
 {"1-x.Y.0", []int64{1, 0, 0}},
 {"1.2.0-x.Y.0+metadata", []int64{1, 2, 0}},
 {"1.4.9223372036854775807", []int64{1, 4, 9223372036854775807}},
 }

 for _, tc := range cases {
 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v.Segments64()
 expected := tc.expected
 if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
 }

 {
 expected := actual[0]
 actual[0]++
 actual = v.Segments64()
 if actual[0] != expected {
 t.Fatalf("Segments64 is mutable")
 }
 }
 }
}

```

```

func TestJsonMarshal(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"1.2.3", false},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen",
false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 }

 for _, tc := range cases {
 v, err1 := NewVersion(tc.version)
 if err1 != nil {
 t.Fatalf("error for version %q: %s", tc.version, err1)
 }

 parsed, err2 := json.Marshal(v)
 if err2 != nil {
 t.Fatalf("error marshaling version %q: %s", tc.version, err2)
 }
 result := string(parsed)
 expected := fmt.Sprintf("%q", tc.version)
 if result != expected && !tc.err {
 t.Fatalf("Error marshaling unexpected marshaled content: result=%q expected=%q", result, expected)
 }
 }
}

func TestJsonUnmarshal(t *testing.T) {
 cases := []struct {
 version string
 err bool
 }{
 {"1.2.3", false},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 }

```

```

{"1.2.0-X-1.2.0+metadata~dist",
false},
{"1.2.3.4-rc1-with-hyphen", false},
{"1.2.3.4", false},
}

for _, tc := range cases {
 expected, err1 := NewVersion(tc.version)
 if err1 != nil {
 t.Fatalf("err: %s", err1)
 }

 actual := &Version{}
 err2 := json.Unmarshal([]byte(fmt.Sprintf("%q", tc.version)), actual)
 if err2 != nil {
 t.Fatalf("error unmarshaling version: %s", err2)
 }
 if !reflect.DeepEqual(actual, expected) {
 t.Fatalf("error unmarshaling, unexpected object content: actual=%q expected=%q", actual, expected)
 }
}

func TestVersionString(t *testing.T) {
 cases := [][]string{
 {"1.2.3", "1.2.3"},
 {"1.2-beta", "1.2.0-beta"},
 {"1.2.0-x.Y.0", "1.2.0-x.Y.0"},
 {"1.2.0-x.Y.0+metadata", "1.2.0-x.Y.0+metadata"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "1.2.0-metadata-1.2.0+metadata~dist"},
 {"17.03.0-ce", "17.3.0-ce"}, // zero-padded fields
 }

 for _, tc := range cases {
 v, err := NewVersion(tc[0])
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v.String()
 expected := tc[1]
 if actual != expected {
 t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
 if actual := v.Original(); actual != tc[0] {
 t.Fatalf("expected original: %q\nactual: %q", tc[0], actual)
 }
 }
}

```



```

}
}

func TestEqual(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v1.Equal(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s <=> %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
 }
 }
}

```

```

}
}

func TestGreaterThan(t *testing.T) {
cases := []struct {
 v1 string
 v2 string
 expected bool
}{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", false},
 {"1.2", "1.1.4", true},
 {"1.2", "1.2-beta", true},
 {"1.2+foo", "1.2+beta", false},
 {"v1.2", "v1.2-beta", true},
 {"v1.2+foo", "v1.2+beta", false},
 {"v1.2.3.4", "v1.2.3.4", false},
 {"v1.2.0.0", "v1.2", false},
 {"v1.2.0.0.1", "v1.2", true},
 {"v1.2", "v1.2.0.0", false},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", true},
 {"1.7rc2", "1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
}

for _, tc := range cases {
 v1,
 err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v1.GreaterThan(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s > %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
 }
}

```

```

}
}

func TestLessThan(t *testing.T) {
cases := []struct {
 v1 string
 v2 string
 expected bool
}{
 {"1.2.3", "1.4.5", true},
 {"1.2-beta", "1.2-beta", false},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", false},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", false},
 {"v1.2.3.4", "v1.2.3.4", false},
 {"v1.2.0.0", "v1.2", false},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", false},
 {"v1.2", "v1.2.0.0.1", true},
 {"v1.2.0.0", "v1.2.0.0.1", true},
 {"v1.2.3.0", "v1.2.3.4", true},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", true},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist",
false},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v1.LessThan(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s < %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
 }
}

```

```

}
}

func TestGreaterThanOrEqual(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", true},
 {"1.2", "1.2-beta", true},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", true},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", true},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", true},
 {"1.7rc2",
"1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v1.GreaterThanOrEqual(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s >= %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
 }
 }
}

```

```

}
}

func TestLessThanOrEqual(t *testing.T) {
 cases := []struct {
 v1 string
 v2 string
 expected bool
 }{
 {"1.2.3", "1.4.5", true},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", true},
 {"v1.2.0.0", "v1.2.0.0.1", true},
 {"v1.2.3.0",
"v1.2.3.4", true},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", true},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := v1.LessThanOrEqual(v2)
 expected := tc.expected
 if actual != expected {
 t.Fatalf(
 "%s <= %s\nexpected: %t\nactual: %t",
 tc.v1, tc.v2,
 expected, actual)
 }
 }
}

```

```
}
}
```

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# 1.7.0 (May 24, 2024)

#### ENHANCEMENTS:

- Remove `reflect` dependency ([#91](https://github.com/hashicorp/go-version/pull/91))
- Implement the `database/sql.Scanner` and `database/sql/driver.Value` interfaces for `Version` ([#133](https://github.com/hashicorp/go-version/pull/133))

#### INTERNAL:

- [COMPLIANCE] Add Copyright and License Headers ([#115](https://github.com/hashicorp/go-version/pull/115))
- [COMPLIANCE] Update MPL-2.0 LICENSE ([#105](https://github.com/hashicorp/go-version/pull/105))
- Bump actions/cache from 3.0.11 to 3.2.5 ([#116](https://github.com/hashicorp/go-version/pull/116))
- Bump actions/checkout from 3.2.0 to 3.3.0 ([#111](https://github.com/hashicorp/go-version/pull/111))
- Bump actions/upload-artifact from 3.1.1 to 3.1.2 ([#112](https://github.com/hashicorp/go-version/pull/112))
- GHA Migration ([#103](https://github.com/hashicorp/go-version/pull/103))
- github: Pin external GitHub Actions to hashes ([#107](https://github.com/hashicorp/go-version/pull/107))
- SEC-090:  
Automated trusted workflow pinning (2023-04-05) ([#124](https://github.com/hashicorp/go-version/pull/124))
- update readme ([#104](https://github.com/hashicorp/go-version/pull/104))

# 1.6.0 (June 28, 2022)

#### FEATURES:

- Add `Prerelease` function to `Constraint` to return true if the version includes a prerelease field ([#100](https://github.com/hashicorp/go-version/pull/100))

# 1.5.0 (May 18, 2022)

#### FEATURES:

- Use `encoding` `TextMarshaler` & `TextUnmarshaler` instead of JSON equivalents ([#95](https://github.com/hashicorp/go-version/pull/95))
- Add JSON handlers to allow parsing from/to JSON ([#93](https://github.com/hashicorp/go-version/pull/93))

# 1.4.0 (January 5, 2022)

#### FEATURES:



- Introduce `MustConstraints()` ([#87](https://github.com/hashicorp/go-version/pull/87))
- `Constraints`: Introduce `Equals()` and `sort.Interface` methods ([#88](https://github.com/hashicorp/go-version/pull/88))

# 1.3.0 (March 31, 2021)

Please note that CHANGELOG.md does not exist in the source code prior to this release.

#### FEATURES:

- Add `Core` function to return a version without prerelease or metadata ([#85](https://github.com/hashicorp/go-version/pull/85))

# 1.2.1 (June 17, 2020)

#### BUG FIXES:

- Prevent `Version.Equal` method from panicking on `nil` encounter ([#73](https://github.com/hashicorp/go-version/pull/73))

# 1.2.0 (April 23, 2019)

#### FEATURES:

- Add `GreaterThanOrEqual` and `LessThanOrEqual` helper methods ([#53](https://github.com/hashicorp/go-version/pull/53))

# 1.1.0 (Jan 07, 2019)

#### FEATURES:

- Add `NewSemver` constructor ([#45](https://github.com/hashicorp/go-version/pull/45))

# 1.0.0 (August 24, 2018)

Initial release.

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

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version: 2

updates:

- package-ecosystem: "gomod"

- directory: "/"

- schedule:

- interval: "daily"

- labels: ["dependencies"]

- package-ecosystem: github-actions

- directory: /

- schedule:

- interval: monthly

- labels:

- dependencies

- # only update HashiCorp actions, external actions managed by TSCCR

- allow:

- dependency-name: hashicorp/\*

- groups:

- github-actions-breaking:

```

 update-types:
 - major
github-actions-backward-compatible:
 update-types:
 - minor
 - patch
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package version

import (
 "fmt"
 "regexp"
 "sort"
 "strings"
)

// Constraint represents a single constraint for a version, such as
// ">= 1.0".
type Constraint struct {
 f constraintFunc
 op operator
 check *Version
 original string
}

func (c *Constraint) Equals(con *Constraint) bool {
 return c.op == con.op && c.check.Equal(con.check)
}

// Constraints is a slice of constraints. We make a custom type so that
// we can add methods to it.
type Constraints []*Constraint

type constraintFunc func(v, c *Version) bool

var constraintOperators map[string]constraintOperation

type constraintOperation struct {
 op operator
 f constraintFunc
}

var constraintRegexp *regexp.Regexp

func init() {
 constraintOperators = map[string]constraintOperation{

```

```

"": {op: equal, f: constraintEqual},
"=": {op: equal, f: constraintEqual},
"!=": {op: notEqual, f: constraintNotEqual},
">": {op: greaterThan, f: constraintGreaterThan},
"<":
{op: lessThan, f: constraintLessThan},
">=": {op: greaterThanEqual, f: constraintGreaterThanOrEqualTo},
"<=": {op: lessThanEqual, f: constraintLessThanEqual},
"~>": {op: pessimistic, f: constraintPessimistic},
}

ops := make([]string, 0, len(constraintOperators))
for k := range constraintOperators {
 ops = append(ops, regexp.QuoteMeta(k))
}

constraintRegexp = regexp.MustCompile(fmt.Sprintf(
 `^\s*(%s)\s*(%s)\s*$`,
 strings.Join(ops, "|"),
 VersionRegexpRaw))
}

// NewConstraint will parse one or more constraints from the given
// constraint string. The string must be a comma-separated list of
// constraints.
func NewConstraint(v string) (Constraints, error) {
 vs := strings.Split(v, ",")
 result := make([]*Constraint, len(vs))
 for i, single := range vs {
 c, err := parseSingle(single)
 if err != nil {
 return nil, err
 }

 result[i] = c
 }

 return Constraints(result), nil
}

// MustConstraints is a helper that wraps a call to a function
//
// returning (Constraints, error) and panics if error is non-nil.
func MustConstraints(c Constraints, err error) Constraints {
 if err != nil {
 panic(err)
 }
}

```



```

return c
}

// Check tests if a version satisfies all the constraints.
func (cs Constraints) Check(v *Version) bool {
 for _, c := range cs {
 if !c.Check(v) {
 return false
 }
 }

 return true
}

// Equals compares Constraints with other Constraints
// for equality. This may not represent logical equivalence
// of compared constraints.
// e.g. even though '>0.1,>0.2' is logically equivalent
// to '>0.2' it is *NOT* treated as equal.
//
// Missing operator is treated as equal to '=', whitespaces
// are ignored and constraints are sorted before comaparison.
func (cs Constraints) Equals(c Constraints) bool {
 if len(cs) != len(c) {
 return false
 }

 // make copies to retain order of the original slices
 left := make(Constraints, len(cs))
 copy(left, cs)
 sort.Stable(left)
 right := make(Constraints, len(c))
 copy(right, c)
 sort.Stable(right)

 //
 compare sorted slices
 for i, con := range left {
 if !con.Equals(right[i]) {
 return false
 }
 }

 return true
}

func (cs Constraints) Len() int {
 return len(cs)
}

```

```

}

func (cs Constraints) Less(i, j int) bool {
 if cs[i].op < cs[j].op {
 return true
 }
 if cs[i].op > cs[j].op {
 return false
 }

 return cs[i].check.LessThan(cs[j].check)
}

func (cs Constraints) Swap(i, j int) {
 cs[i], cs[j] = cs[j], cs[i]
}

// Returns the string format of the constraints
func (cs Constraints) String() string {
 csStr := make([]string, len(cs))
 for i, c := range cs {
 csStr[i] = c.String()
 }

 return strings.Join(csStr, ",")
}

// Check tests if a constraint is validated by the given version.
func (c *Constraint) Check(v *Version) bool {
 return c.f(v, c.check)
}

// Prerelease returns true if the version underlying this constraint
// contains a prerelease field.
func (c *Constraint) Prerelease() bool {
 return len(c.check.Prerelease()) > 0
}

func (c *Constraint) String()
string {
 return c.original
}

func parseSingle(v string) (*Constraint, error) {
 matches := constraintRegexp.FindStringSubmatch(v)
 if matches == nil {
 return nil, fmt.Errorf("Malformed constraint: %s", v)
 }
}

```

```

check, err := NewVersion(matches[2])
if err != nil {
 return nil, err
}

cop := constraintOperators[matches[1]]

return &Constraint{
 f: cop.f,
 op: cop.op,
 check: check,
 original: v,
}, nil
}

func prereleaseCheck(v, c *Version) bool {
 switch vPre, cPre := v.Prerelease() != "", c.Prerelease() != ""; {
 case cPre && vPre:
 // A constraint with a pre-release can only match a pre-release version
 // with the same base segments.
 return v.equalSegments(c)

 case !cPre && vPre:
 // A constraint without a pre-release can only match a version without a
 // pre-release.
 return false

 case cPre && !vPre:
 // OK, except with the pessimistic operator
 case !cPre && !vPre:
 // OK
 }
 return true
}

//-----
//
Constraint functions
//-----

type operator rune

const (
 equal operator = '='
 notEqual operator = "
 greaterThan operator = '>'
 lessThan operator = '<'

```

```

greaterThanEqual operator = "
lessThanEqual operator = "
pessimistic operator = '~'
)

func constraintEqual(v, c *Version) bool {
 return v.Equal(c)
}

func constraintNotEqual(v, c *Version) bool {
 return !v.Equal(c)
}

func constraintGreaterThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == 1
}

func constraintLessThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == -1
}

func constraintGreaterThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) >= 0
}

func constraintLessThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) <= 0
}

func constraintPessimistic(v, c *Version) bool {
 // Using a pessimistic
 // constraint with a pre-release, restricts versions to pre-releases
 if !prereleaseCheck(v, c) || (c.Prerelease() != "" && v.Prerelease() == "") {
 return false
 }

 // If the version being checked is naturally less than the constraint, then there
 // is no way for the version to be valid against the constraint
 if v.LessThan(c) {
 return false
 }

 // We'll use this more than once, so grab the length now so it's a little cleaner
 // to write the later checks
 cs := len(c.segments)

 // If the version being checked has less specificity than the constraint, then there
 // is no way for the version to be valid against the constraint
 if cs > len(v.segments) {

```

```

return false
}

// Check the segments in the constraint against those in the version. If the version
// being checked, at any point, does not have the same values in each index of the
// constraints segments, then it cannot be valid against the constraint.
for i := 0; i < c.si-1; i++ {
 if v.segments[i] != c.segments[i]
 {
 return false
 }
}

// Check the last part of the segment in the constraint. If the version segment at
// this index is less than the constraints segment at this index, then it cannot
// be valid against the constraint
if c.segments[cs-1] > v.segments[cs-1] {
 return false
}

// If nothing has rejected the version by now, it's valid
return true
}

```

Common libraries shared by Prometheus Go components.

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module [github.com/hashicorp/go-version](https://github.com/hashicorp/go-version)

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package version

```
import (
 "fmt"
 "reflect"
 "sort"
 "testing"
)
```

```
func TestNewConstraint(t *testing.T) {
 cases := []struct {
 input string
 count int
 err bool
 }{
 {">= 1.2", 1, false},
 {"1.0", 1, false},
 {">= 1.x", 0, true},
 {">= 1.2, < 1.0", 2, false},
 }
```

```
// Out of bounds
{"113877787807814456755295000000000000000000", 0, true},
}

for _, tc := range cases {
 v, err := NewConstraint(tc.input)
 if tc.err && err == nil {
 t.Fatalf("expected error for input: %s", tc.input)
 } else if !tc.err && err != nil {
 t.Fatalf("error for input %s: %s", tc.input, err)
 }

 if len(v) != tc.count {
 t.Fatalf("input: %s\nexpected len: %d\nactual: %d",
 tc.input, tc.count, len(v))
 }
}
}
```

```

{"~> 2.0", "2.1.0-beta", false},
{"~> 2.1.0-a", "2.2.0", false},
{"~> 2.1.0-a", "2.1.0", false},
{"~> 2.1.0-a", "2.1.0-beta", true},
{"~> 2.1.0-a", "2.2.0-alpha", false},
{"> 2.0", "2.1.0-beta", false},
{">= 2.1.0-a", "2.1.0-beta", true},
{">= 2.1.0-a", "2.1.1-beta", false},
{">= 2.0.0", "2.1.0-beta", false},
{">= 2.1.0-a", "2.1.1", true},
{">= 2.1.0-a", "2.1.1-beta",
false},
{">= 2.1.0-a", "2.1.0", true},
{"<= 2.1.0-a", "2.0.0", true},
}

for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 v, err := NewVersion(tc.version)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := c.Check(v)
 expected := tc.check
 if actual != expected {
 t.Fatalf("Version: %s\nConstraint: %s\nExpected: %#v",
 tc.version, tc.constraint, expected)
 }
}

func TestConstraintPrerelease(t *testing.T) {
 cases := []struct {
 constraint string
 prerelease bool
 }{
 {"= 1.0", false},
 {"= 1.0-beta", true},
 {"~> 2.1.0", false},
 {"~> 2.1.0-dev", true},
 {"> 2.0", false},
 {">= 2.1.0-a", true},
 }
}

```

```

for _, tc := range cases {
 c, err := parseSingle(tc.constraint)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 actual := c.Prerelease()
 expected := tc.prerelease
 if actual != expected {
 t.Fatalf("Constraint: %s\nExpected: %#v",
 tc.constraint, expected)
 }
}
}

```

```

func
TestConstraintEqual(t *testing.T) {
 cases := []struct {
 leftConstraint string
 rightConstraint string
 expectedEqual bool
 }{
 {
 "0.0.1",
 "0.0.1",
 true,
 },
 { // whitespaces
 " 0.0.1 ",
 "0.0.1",
 true,
 },
 { // equal op implied
 "=0.0.1 ",
 "0.0.1",
 true,
 },
 { // version difference
 "=0.0.1",
 "=0.0.2",
 false,
 },
 { // operator difference
 ">0.0.1",
 "=0.0.1",
 false,
 },
 },

```



```

{ // different order
">0.1.0, <=1.0.0",
"<=1.0.0, >0.1.0",
true,
},
}

for _, tc := range cases {
leftCon, err := NewConstraint(tc.leftConstraint)
if err != nil {
t.Fatalf("err: %s", err)
}
rightCon, err := NewConstraint(tc.rightConstraint)
if err != nil {
t.Fatalf("err: %s", err)
}

actual := leftCon.Equals(rightCon)
if actual != tc.expectedEqual {
t.Fatalf("Constraints: %s vs %s\nExpected: %t\nActual: %t",
tc.leftConstraint, tc.rightConstraint, tc.expectedEqual, actual)
}
}
}

func TestConstraint_sort(t
*testing.T) {
cases := []struct {
constraint string
expectedConstraints string
}{
{
">= 0.1.0,< 1.12",
"< 1.12,>= 0.1.0",
},
{
"< 1.12,>= 0.1.0",
"< 1.12,>= 0.1.0",
},
{
"< 1.12,>= 0.1.0,0.2.0",
"< 1.12,0.2.0,>= 0.1.0",
},
{
">1.0,>0.1.0,>0.3.0,>0.2.0",
">0.1.0,>0.2.0,>0.3.0,>1.0",
},
}
}

```

```

for i, tc := range cases {
 t.Run(fmt.Sprintf("%d", i), func(t *testing.T) {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
 t.Fatalf("err: %s", err)
 }

 sort.Sort(c)

 actual := c.String()

 if !reflect.DeepEqual(actual, tc.expectedConstraints) {
 t.Fatalf("unexpected order\nexpected: %#v\nactual: %#v",
 tc.expectedConstraints, actual)
 }
 })
}

func TestConstraintsString(t *testing.T) {
 cases := []struct {
 constraint string
 result string
 }{
 {">= 1.0, < 1.2", ""},
 {"~> 1.0.7", ""},
 }

 for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
 t.Fatalf("err:
%s", err)
 }

 actual := c.String()
 expected := tc.result
 if expected == "" {
 expected = tc.constraint
 }

 if actual != expected {
 t.Fatalf("Constraint: %s\nExpected: %#v\nActual: %s",
 tc.constraint, expected, actual)
 }
 }
}

```

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Protocol Buffers for Go with Gadgets

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

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package version

```
import (
 "bytes"
 "database/sql/driver"
 "fmt"
 "regexp"
 "strconv"
 "strings"
)
```

// The compiled regular expression used to test the validity of a version.

```
var (
 versionRegexp *regexp.Regexp
 semverRegexp *regexp.Regexp
)
```

// The raw regular expression string used for testing the validity  
// of a version.

```
const (
 VersionRegexpRaw string = `v?([0-9]+(\.[0-9]+)*)` +
 `(-([0-9]+[0-9A-Za-z\-\~]*\.[0-9A-Za-z\-\~]*)|(-?([A-Za-z\-\~]+[0-9A-Za-z\-\~]*\.[0-9A-Za-z\-\~]+)*)))?` +
 `(\+([0-9A-Za-z\-\~]+(\.[0-9A-Za-z\-\~]+)*)))?` +
 `?`
```

// SemverRegexpRaw requires a separator between version and prerelease

```
SemverRegexpRaw string = `v?([0-9]+(\.[0-9]+)*)` +
 `(-([0-9]+[0-9A-Za-z\-\~]*\.[0-9A-Za-z\-\~]*)|(-([A-Za-z\-\~]+[0-9A-Za-z\-\~]*\.[0-9A-Za-z\-\~]+)*)))?` +
 `(\+([0-9A-Za-z\-\~]+(\.[0-9A-Za-z\-\~]+)*)))?` +
 `?`
)
```

// Version represents a single version.

```
type Version struct {
```

```

metadata string
pre
 string
segments []int64
si int
original string
}

func init() {
 versionRegexp = regexp.MustCompile("^" + VersionRegexpRaw + "$")
 semverRegexp = regexp.MustCompile("^" + SemverRegexpRaw + "$")
}

// NewVersion parses the given version and returns a new
// Version.
func NewVersion(v string) (*Version, error) {
 return newVersion(v, versionRegexp)
}

// NewSemver parses the given version and returns a new
// Version that adheres strictly to SemVer specs
// https://semver.org/
func NewSemver(v string) (*Version, error) {
 return newVersion(v, semverRegexp)
}

func newVersion(v string, pattern *regexp.Regexp) (*Version, error) {
 matches := pattern.FindStringSubmatch(v)
 if matches == nil {
 return nil, fmt.Errorf("Malformed version: %s", v)
 }
 segmentsStr := strings.Split(matches[1], ".")
 segments := make([]int64, len(segmentsStr))
 for i, str := range segmentsStr {
 val, err := strconv.ParseInt(str, 10, 64)
 if err != nil {
 return nil, fmt.Errorf(
 "Error parsing version:
%s", err)
 }

 segments[i] = val
 }

 // Even though we could support more than three segments, if we
 // got less than three, pad it with 0s. This is to cover the basic
 // default usecase of semver, which is MAJOR.MINOR.PATCH at the minimum
 for i := len(segments); i < 3; i++ {

```

```

segments = append(segments, 0)
}

pre := matches[7]
if pre == "" {
 pre = matches[4]
}

return &Version{
 metadata: matches[10],
 pre: pre,
 segments: segments,
 si: len(segmentsStr),
 original: v,
}, nil
}

// Must is a helper that wraps a call to a function returning (*Version, error)
// and panics if error is non-nil.
func Must(v *Version, err error) *Version {
 if err != nil {
 panic(err)
 }

 return v
}

// Compare compares this version to another version. This
// returns -1, 0, or 1 if this version is smaller, equal,
// or larger than the other version, respectively.
//
// If you want boolean results, use the LessThan, Equal,
// GreaterThan, GreaterThanOrEqual or LessThanOrEqual
// methods.
func (v *Version) Compare(other *Version) int {
 // A quick, efficient equality check
 if v.String() == other.String() {
 return 0
 }

 // If the segments are the same, we must compare on prerelease info
 if v.equalSegments(other) {
 preSelf := v.Prerelease()
 preOther := other.Prerelease()
 if preSelf == "" && preOther == "" {
 return 0
 }
 if preSelf == "" {

```

```

 return 1
}
if preOther == "" {
 return -1
}

return comparePrereleases(preSelf, preOther)
}

segmentsSelf := v.Segments64()
segmentsOther := other.Segments64()
// Get the highest specificity (hS), or if they're equal, just use segmentSelf length
lenSelf := len(segmentsSelf)
lenOther := len(segmentsOther)
hS := lenSelf
if lenSelf < lenOther {
 hS = lenOther
}
// Compare the segments
// Because a constraint could have more/less specificity than the version it's
// checking, we need to account for a lopsided or jagged comparison
for i := 0; i < hS; i++ {
 if i > lenSelf-1 {
 //
 This means Self had the lower specificity
 // Check to see if the remaining segments in Other are all zeros
 if !allZero(segmentsOther[i:]) {
 // if not, it means that Other has to be greater than Self
 return -1
 }
 break
 } else if i > lenOther-1 {
 // this means Other had the lower specificity
 // Check to see if the remaining segments in Self are all zeros -
 if !allZero(segmentsSelf[i:]) {
 // if not, it means that Self has to be greater than Other
 return 1
 }
 break
 }
 lhs := segmentsSelf[i]
 rhs := segmentsOther[i]
 if lhs == rhs {
 continue
 } else if lhs < rhs {
 return -1
 }
 // Otherwis, rhs was > lhs, they're not equal

```

```

 return 1
}

// if we got this far, they're equal
return 0
}

func (v *Version) equalSegments(other *Version) bool {
 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()

 if len(segmentsSelf) != len(segmentsOther) {
 return false
 }
 for i, v := range segmentsSelf {
 if v != segmentsOther[i]
 {
 return false
 }
 }
 return true
}

func allZero(segs []int64) bool {
 for _, s := range segs {
 if s != 0 {
 return false
 }
 }
 return true
}

func comparePart(preSelf string, preOther string) int {
 if preSelf == preOther {
 return 0
 }
}

var selfInt int64
selfNumeric := true
selfInt, err := strconv.ParseInt(preSelf, 10, 64)
if err != nil {
 selfNumeric = false
}

var otherInt int64
otherNumeric := true
otherInt, err = strconv.ParseInt(preOther, 10, 64)
if err != nil {

```

```

otherNumeric = false
}

// if a part is empty, we use the other to decide
if preSelf == "" {
 if otherNumeric {
 return -1
 }
 return 1
}

if preOther == "" {
 if selfNumeric {
 return 1
 }
 return -1
}

if selfNumeric && !otherNumeric {
 return -1
} else if !selfNumeric && otherNumeric {
 return 1
} else if !selfNumeric && !otherNumeric && preSelf > preOther {
 return 1
} else if selfInt > otherInt {
 return 1
}

return -1
}

func comparePrereleases(v string, other string)
int {
 // the same pre release!
 if v == other {
 return 0
 }

 // split both pre releases for analyse their parts
 selfPreReleaseMeta := strings.Split(v, ".")
 otherPreReleaseMeta := strings.Split(other, ".")

 selfPreReleaseLen := len(selfPreReleaseMeta)
 otherPreReleaseLen := len(otherPreReleaseMeta)

 biggestLen := otherPreReleaseLen
 if selfPreReleaseLen > otherPreReleaseLen {
 biggestLen = selfPreReleaseLen
 }
}

```

```

}

// loop for parts to find the first difference
for i := 0; i < biggestLen; i = i + 1 {
 partSelfPre := ""
 if i < selfPreReleaseLen {
 partSelfPre = selfPreReleaseMeta[i]
 }

 partOtherPre := ""
 if i < otherPreReleaseLen {
 partOtherPre = otherPreReleaseMeta[i]
 }

 compare := comparePart(partSelfPre, partOtherPre)
 // if parts are equals, continue the loop
 if compare != 0 {
 return compare
 }
}

return 0
}

// Core returns a new version constructed from only the MAJOR.MINOR.PATCH
// segments of the version, without prerelease or metadata.
func
(v *Version) Core() *Version {
 segments := v.Segments64()
 segmentsOnly := fmt.Sprintf("%d.%d.%d", segments[0], segments[1], segments[2])
 return Must(NewVersion(segmentsOnly))
}

// Equal tests if two versions are equal.
func (v *Version) Equal(o *Version) bool {
 if v == nil || o == nil {
 return v == o
 }

 return v.Compare(o) == 0
}

// GreaterThan tests if this version is greater than another version.
func (v *Version) GreaterThan(o *Version) bool {
 return v.Compare(o) > 0
}

// GreaterThanOrEqual tests if this version is greater than or equal to another version.

```



```

func (v *Version) GreaterThanOrEqual(o *Version) bool {
 return v.Compare(o) >= 0
}

// LessThan tests if this version is less than another version.
func (v *Version) LessThan(o *Version) bool {
 return v.Compare(o) < 0
}

// LessThanOrEqual tests if this version is less than or equal to another version.
func (v *Version) LessThanOrEqual(o *Version) bool {
 return v.Compare(o) <= 0
}

// Metadata returns any metadata
// that was part of the version
// string.
//
// Metadata is anything that comes after the "+" in the version.
// For example, with "1.2.3+beta", the metadata is "beta".
func (v *Version) Metadata() string {
 return v.metadata
}

// Prerelease returns any prerelease data that is part of the version,
// or blank if there is no prerelease data.
//
// Prerelease information is anything that comes after the "-" in the
// version (but before any metadata). For example, with "1.2.3-beta",
// the prerelease information is "beta".
func (v *Version) Prerelease() string {
 return v.pre
}

// Segments returns the numeric segments of the version as a slice of ints.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments() []int {
 segmentSlice := make([]int, len(v.segments))
 for i, v := range v.segments {
 segmentSlice[i] = int(v)
 }
 return segmentSlice
}

// Segments64 returns the

```

```

numeric segments of the version as a slice of int64s.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments64() []int64 {
 result := make([]int64, len(v.segments))
 copy(result, v.segments)
 return result
}

// String returns the full version string included pre-release
// and metadata information.
//
// This value is rebuilt according to the parsed segments and other
// information. Therefore, ambiguities in the version string such as
// prefixed zeroes (1.04.0 => 1.4.0), `v` prefix (v1.0.0 => 1.0.0), and
// missing parts (1.0 => 1.0.0) will be made into a canonicalized form
// as shown in the parenthesized examples.
func (v *Version) String() string {
 var buf bytes.Buffer
 fmtParts := make([]string, len(v.segments))
 for i, s := range v.segments {
 // We can ignore err here since we've pre-parsed the values in segments
 str := strconv.FormatInt(s, 10)
 fmtParts[i] = str
 }
 fmt.Fprintf(&buf, strings.Join(fmtParts, "."))
 if v.pre != "" {
 fmt.Fprintf(&buf, "-%s", v.pre)
 }
 if v.metadata != "" {
 fmt.Fprintf(&buf, "+%s", v.metadata)
 }

 return buf.String()
}

// Original returns the original parsed version as-is, including any
// potential whitespace, `v` prefix, etc.
func (v *Version) Original() string {
 return v.original
}

// UnmarshalText implements encoding.TextUnmarshaler interface.
func (v *Version) UnmarshalText(b []byte) error {
 temp, err := NewVersion(string(b))

```

```

if err != nil {
 return err
}

*v = *temp

return nil
}

// MarshalText implements encoding.TextMarshaler interface.
func (v *Version) MarshalText() ([]byte, error) {
 return []byte(v.String()), nil
}

// Scan implements the sql.Scanner interface.
func (v *Version) Scan(src interface{}) error {
 switch src := src.(type) {
 case string:
 return v.UnmarshalText([]byte(src))
 case nil:
 return nil
 default:
 return fmt.Errorf("cannot scan %T as Version", src)
 }
}

//
// Value implements the driver.Valuer interface.
func (v *Version) Value() (driver.Value, error) {
 return v.String(), nil
}

```

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# 1.75 go.temporal.io-server 1.26.2-125.1

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# 1.78 otel 1.31.0

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## 1.79 fasttemplate 1.2.1

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# 1.81 driver-postgres 1.5.11

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# 1.82 x-exp 0.0.0-20240531132922-fd00a4e0eefc

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## 1.83 grpc-gateway 2.22.0

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## 1.84 temporalio-tctl-kit 0.0.0-20221128225502-a682971cf481

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## 1.85 x-sync 0.11.0

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# 1.86 go.uber.org-fx 1.22.0

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# 1.87 protobuf-go 1.35.1

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## 1.88 @cwm/entry 0.0.3

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```
{
 "$schema": "../../../node_modules/ng-packagr/ng-package.schema.json",
 "dest": "../../../dist/cwm/admin",
 "lib": {
 "entryFile": "public-api.ts"
 }
}
{
 "$schema": "../../../node_modules/ng-packagr/ng-package.schema.json",
 "dest": "../../../dist/cwm/forms",
 "lib": {
 "entryFile": "public-api.ts"
 }
}
{
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 "lib": {
 "entryFile": "public-api.ts"
 }
}
{
 "$schema": "../../../node_modules/ng-packagr/ng-package.schema.json",
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 }
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 }
}
```

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}
{
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 "lib": {
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 }
}
{
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 "dest": "../../dist/cwm/job-manager",
 "lib": {
 "entryFile": "public-api.ts"
 }
}
{
 "$schema": "../../node_modules/ng-packagr/ng-package.schema.json",
 "dest": "../../dist/cwm-lib",
 "assets": [
 "assets"
],
 "lib": {
 "entryFile": "src/public-api.ts"
 },
 "allowedNonPeerDependencies": [
 "."
]
}

```

## 1.89 uniseg 0.4.7

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# 1.91 enterprise-certificate-proxy 0.3.2

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## 1.92 etcd-client 3.5.18

### 1.92.1 Available under license :

# Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

## Local standalone cluster

### Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
...
$./etcd
...
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

### Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

```
...
$./etcdctl put foo bar
OK
...
```

If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

```
...
$./etcdctl get foo
```

```
bar
...
```

If `bar` is returned, interaction with the etcd cluster is working as expected.

## ## Local multi-member cluster

### ### Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

```
...
$ go install github.com/mattn/goreman@latest
...
```

The installation will place executables in the \$GOPATH/bin. If \$GOPATH environment variable is not set, the tool will be installed into the \$HOME/go/bin. Make sure that \$PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
...
$ goreman -f Procfile start
...
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

### ### Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print the list of members:

```
...
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
...
```

The list of etcd members is displayed as follows:

```
...
+-----+-----+-----+-----+-----+
| ID | STATUS | NAME | PEER ADDRS | CLIENT ADDRS |
+-----+-----+-----+-----+-----+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380 | http://127.0.0.1:2379 |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
```

```
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
```

```
+-----+-----+-----+-----+-----+
...
```

2. Store an example key-value pair in the cluster:

```
...
```

```
$ etcdctl put foo bar
```

```
OK
```

```
...
```

If OK is printed, storing the key-value pair is successful.

###

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The ``Procfile`` lists the properties of the multi-member cluster. For example, consider the member with the process name, ``etcd2``.

2. Stop the member:

```
...
```

```
kill etcd2
```

```
$ goreman run stop etcd2
```

```
...
```

3. Store a key:

```
...
```

```
$ etcdctl put key hello
```

```
OK
```

```
...
```

4. Retrieve the key that is stored in the previous step:

```
...
```

```
$ etcdctl get key
```

```
hello
```

```
...
```

5. Retrieve a key from the stopped member:

```
...
```

```
$ etcdctl --endpoints=localhost:22379 get key
```

...

The command should display an error caused by connection failure:

...

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc =
"transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
```

```
Error: grpc:
timed out trying to connect
```

...

6. Restart the stopped member:

...

```
$ goreman run restart etcd2
```

...

7. Get the key from the restarted member:

...

```
$ etcdctl --endpoints=localhost:22379 get key
hello
```

...

Restarting the member re-establishes the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: <https://etcd.io/docs/latest/op-guide/clustering/>

[interacting]: [https://etcd.io/docs/latest/dev-guide/interacting\\_v3/](https://etcd.io/docs/latest/dev-guide/interacting_v3/)

# Issue triage guidelines

## ## Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

## ## Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project

maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

## ## Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

- \* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
- \* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
- \* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
- \* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
- \* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

## ##

### Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

### ### Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

### ### Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access close the issue.

## ## Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

### ### Support requests



As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

#### Common

types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <<https://github.com/etcd-io/etcd/issues/15945>>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.
2. Bug reports or questions about unsupported versions of etcd, for example <<https://github.com/etcd-io/etcd/issues/15796>>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.
3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors are not able to reproduce the issue, for example, <<https://github.com/etcd-io/etcd/issues/15740>>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.
4. General questions that are filed using feature request or bug report issue templates, for example, <<https://github.com/etcd-io/etcd/issues/15914>>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.
2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).

>

> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.

>

> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.

- >
- > Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
- >
- > 1. [user documentation](https://etcd.io/docs/latest)
- > 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
- >
- > Again, thanks for using etcd and raising this question.
- >
- > The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel, selecting the appropriate discussion category.

### ### Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

### ### Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

### ### Test flakes

#### Test flakes

are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

## ## Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

| Label                   | Notes                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ---                     | ---                                                                                                                                                                                                           |
| area/external           | Tracking label for issues raised that are external to etcd.                                                                                                                                                   |
| area/community          |                                                                                                                                                                                                               |
| area/raft               |                                                                                                                                                                                                               |
| area/clientv3           |                                                                                                                                                                                                               |
| area/performance        |                                                                                                                                                                                                               |
| area/security           |                                                                                                                                                                                                               |
| area/tls                |                                                                                                                                                                                                               |
| area/auth               |                                                                                                                                                                                                               |
| area/etcdctl            |                                                                                                                                                                                                               |
| area/etcdutl            |                                                                                                                                                                                                               |
| area/contrib            | Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project. |
| area/documentation      |                                                                                                                                                                                                               |
| area/tooling            | Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.                |
| area/testing            |                                                                                                                                                                                                               |
| area/robustness-testing |                                                                                                                                                                                                               |

## ## Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

| Priority label                    | What it means                                                                                                                                                                                                                                                                                                             | Examples                                                                                                                            |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| ---                               | ---                                                                                                                                                                                                                                                                                                                       | ---                                                                                                                                 |
| `priority/critical-urgent`        | Maintainers are responsible for making sure that these issues (in their area) are being actively worked on i.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.                                                                                                             | user-visible critical bugs in core features <br> broken builds on tier1 supported platforms <br> tests and critical security issues |
| `priority/important-soon`         | Must be staffed and worked on either currently or very soon ideally in time for the next release.                                                                                                                                                                                                                         |                                                                                                                                     |
| `priority/important-longterm`     | Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.                                                                                                                                                                                                          |                                                                                                                                     |
| `priority/backlog`                | General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issues for example, immediately before a release. |                                                                                                                                     |
| `priority/awaiting-more-evidence` | Possibly useful, but not yet enough support to actually get it done. Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up                                                                                                |                                                                                                                                     |

## ## Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

### ### Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

- \* **Low Barrier to Entry** - It should be easy for new contributors.

- \* **Clear** - The task is agreed upon and does not require further discussions in the community.

- \* **Goldilocks priority** - The priority should not be so high that a core contributor should do it, but not too low that it isn't useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

### ### Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

- \* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

- \*

- \* **Solution Explained** - The recommended solution is clearly described in the issue.

- \* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

- \* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

- \* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesn't have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

### ## Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

### ### Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

### ### Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

### ### Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.

### # Branch management

## ## Guide

- \* New development occurs on the [main branch][main].
- \* The main branch should always have a green build!
- \* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
- \* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *\*rolling release model\** and supports two stable versions of etcd.

### ### Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

### ### Stable branches

All branches with the prefix `release-` are considered `_stable_` branches.

After every minor release ([semver.org](https://semver.org/)), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A `_patch_` release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: <https://github.com/etcd-io/etcd/tree/main>

# PR management

## ## Purpose

Speed up PR management.

The `etcd` PRs are listed at <https://github.com/etcd-io/etcd/pulls>

A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at <https://github.com/kubernetes/kubernetes/labels>

Following are a few example searches on PR for convenience:

\* [Open PRS for milestone etcd-v3.6](<https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6>)

\* [PRs under investigation](<https://github.com/etcd-io/etcd/labels/Investigating>)

## ## Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

## ## Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test` label then please comment on the pull request `/ok-to-test`.

## ## Handle inactive PRs

Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

## ## Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

## ## Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.

## # Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep

this document up-to-date if making changes to the release process.

## ## Release management

Under the leadership of **James Blair** [[@jmhbnz](https://github.com/jmhbnz)] and **Ivan Valdes Castillo** [[@ivanvc](https://github.com/ivanvc)], the following pool of release candidates manages the release of each etcd major/minor version as well as manages patches to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [[@ahrtr](https://github.com/ahrtr)]
- Fu Wei [[@fuweid](https://github.com/fuweid)]
- James Blair [[@jmhbnz](https://github.com/jmhbnz)]
- Ivan Valdes Castillo [[@ivanvc](https://github.com/ivanvc)]
- Marek Siarkowicz [[@serathius](https://github.com/serathius)]
- Sahdev Zala [[@spzala](https://github.com/spzala)]
- 
- Siyuan Zhang [[@siyuanfoundation](https://github.com/siyuanfoundation)]
- Wenjia Zhang [[@wenjiaswe](https://github.com/wenjiaswe)]

All release version numbers follow the format of [semantic versioning 2.0.0](<http://semver.org/>).

### ### Major, minor version release, or its pre-release

- Ensure the relevant [milestone](<https://github.com/etcd-io/etcd/milestones>) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](<https://etcd.io/docs/next/upgrades>) is available.
- Bump [hardcoded MinClusterVersion in the repository](<https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29>), if necessary.
- Add feature capability maps for the new version, if necessary.

### ### Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- 
- The cherrypick PRs should target the appropriate release branch (``base:release-<major>-<minor>``). The k8s infra cherry pick robot ``/cherrypick <branch>`` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

## ## Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put ``[GH XXXX]`` at the head of the change line to reference the Pull Request that introduces the change.

Moreover, add a link on it to jump to the Pull Request.

- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

##

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs ( $\geq 7.5$ ).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

## Release guide

### Prerequisites

There are some prerequisites, which should be done before the release process. These are one-time operations, which don't need to be executed before releasing each version.

1. Generate a GPG key and add it to your GitHub account. Refer to the links on [settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
  - Ensure the Golang version matches the version defined in `.go-version` file.
  - Ensure non-privileged users can run docker commands, refer to the [Linux postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
  - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil\_install](https://cloud.google.com/storage/docs/gsutil\_install). When asked about cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-registry/docs/advanced-authentication).
  - `gcloud auth login`
  - `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running `gh auth login` succeeds for the GitHub account you use to contribute to etcd, and that `gh auth status` has a clean exit and doesn't show any issues.

### Release steps

At least one day before the release:

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request ([example PR](https://github.com/kubernetes/org/pull/5582)) to ensure members of the release team are added to the [release github team](https://github.com/orgs/etcd-io/teams/release-etcd).

On



the day of the release:

1. Verify you can pass the authentication to the image registries,

- ``docker login gcr.io``

- ``docker login quay.io``

- If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz, @serathius) needs to share the password with them per [this guide](https://support.1password.com/share-items/).

See rough steps below,

- [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.

- Click `Your Vault Items` on the right side.

- Select `Password of quay.io`.

- Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using his/her email.

- Click `Copy Link` then send the link to the release person via slack or email.

2. Clone the etcd repository and checkout the target branch,

- ``git clone --branch release-3.X git@github.com:etcd-io/etcd.git``

3. Run the release script

under the repository's root directory, replacing `\${VERSION}` with a value without the `v` prefix, i.e. `3.5.13`.

- ``DRY_RUN=false ./scripts/release.sh ${VERSION}``

- **\*\*NOTE:\*\*** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to explicitly set the branch to main:

```
```bash
```

```
DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
```

```
```
```

It generates all release binaries under the directory ``tmp/etcd-release-${VERSION}/etcd/release/`` and images. Binaries are pushed to the Google Cloud bucket

under project ``etcd-development``, and images are pushed to ``quay.io`` and ``gcr.io``.

4. Publish the release page on GitHub

- Open the **\*\*draft\*\*** release URL shown by the release script

- Click the pen button at the top right to edit the release

- Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked,

- v3.6 has the set as pre-release checkbox checked)

- Then, publish the release

5. Announce to the etcd-dev googlegroup

Follow the format of previous release emails sent to `etcd-dev@googlegroups.com`, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the email from the pending list. Additionally, label the release email as ``Release``.

```
```text
```

```
Hello,
```

```
etcd v3.4.30 is now public!
```

<https://github.com/etcd-io/etcd/releases/tag/v3.4.30>

Thanks to everyone who contributed to the release!

etcd team

```

6. Update the changelog to reflect the correct release date.

7. Paste the release link to the issue raised in Step 1 and close the issue.

8. Raise a follow-up `kubernetes/org` pull request to return the GitHub release team to empty, least privilege state.

9. Create a new stable branch through `git push origin release-\${VERSION\_MAJOR}.\${VERSION\_MINOR}` if this is a new major or minor stable release.

10.

Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

#### #### Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](<https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported>).

Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.

#### # Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the

most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important

stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over

the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions]([https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage\\_issues.md#step-5---prioritise-the-issue](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue)).

#### ## v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](<https://github.com/etcd-io/etcd/milestone/38>).

| Title                                                                                                                                                | Priority                                                                    | Status                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------|
| Note                                                                                                                                                 |                                                                             |                         |
| ----- ----- -----                                                                                                                                    |                                                                             |                         |
| [Support downgrade](https://github.com/etcd-io/etcd/issues/11716)                                                                                    |                                                                             |                         |
| priority/important-soon   In progress   etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4. |                                                                             |                         |
| [StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)                                                                                  |                                                                             |                         |
| priority/important-soon   In progress   This task will be covered in both 3.6 and 3.7.                                                               |                                                                             |                         |
| [Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)                                                                                      |                                                                             |                         |
|                                                                                                                                                      | priority/important-soon   Completed   etcd 3.6.0 will depends on raft 3.6.0 |                         |
| [Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)                                                                                   |                                                                             | priority/important-soon |
| Completed   etcd 3.6.0 will depends on bbolt 1.4.0                                                                                                   |                                                                             |                         |
| [Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)                                                                 |                                                                             |                         |
| priority/important-longterm   Completed   It provides clearer APIs, and can also work around the stalled writes issue                                |                                                                             |                         |
| [Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)                                                                                            |                                                                             |                         |
| priority/important-longterm   Completed   It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk. |                                                                             |                         |
| [Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)                                                                    |                                                                             |                         |
| priority/important-longterm   Completed   It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk. |                                                                             |                         |
| [bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)                                                                          |                                                                             |                         |
| priority/important-longterm   Completed   It's important to diagnose bbolt issues                                                                    |                                                                             |                         |
| [bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370)                                                                           |                                                                             |                         |
| priority/important-longterm   Completed   Surgery commands are important for fixing corrupted db files                                               |                                                                             |                         |
| [Evaluate and (Graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)                                    | priority/backlog                                                            |                         |
| Not started   This task will be covered in both 3.6 and 3.7.                                                                                         |                                                                             |                         |

## ## v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

| Title                                                                                                           | Priority | Note                            |
|-----------------------------------------------------------------------------------------------------------------|----------|---------------------------------|
| ----- ----- -----                                                                                               |          |                                 |
| [StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)                                             | P0       | Finish                          |
| the remaining tasks 3.7.                                                                                        |          |                                 |
| [Support range stream](https://github.com/etcd-io/etcd/issues/12342)                                            | P0       | to be investigated & discussed. |
| [Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247) |          |                                 |

|    |                                                                                                                   |  |    |
|----|-------------------------------------------------------------------------------------------------------------------|--|----|
| P1 | to be investigated & discussed                                                                                    |  |    |
|    | [Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)              |  | P1 |
|    | It should improve the performance                                                                                 |  |    |
|    | [bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)           |  | P2 |
|    | It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed.                                 |  |    |
|    | [Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292) |  |    |
| P2 | Finish the remaining tasks 3.7.                                                                                   |  |    |

## ## Backlog (future releases)

| Title                                                                                                    | Priority | Note |
|----------------------------------------------------------------------------------------------------------|----------|------|
| [Remove the dependency on grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)      |          |      |
| [Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533) |          |      |
| [Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)                   |          |      |
| [Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)              |          |      |
| [Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)                                      |          |      |
| [bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)       |          |      |
| [raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)           |          |      |

## # Dependency management

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## ## Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`, see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678). Usually, human intervention is required each time when dependabot automatically opens some PRs to bump dependencies. Please see the guidance below.

### ### Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

### ### Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:

if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then

it doesn't matter to bump which module first. For

example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <<https://etcd.io/docs/next/dev-internal/modules>>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

### ### Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```
```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```
```bash
git
add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example, you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

#### #### Troubleshooting

In an event of bumping the version of `protoc`, `protoc` plugins or `grpc-gateway`, it might change `*.proto` file which can result in the following error:

```
```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```
```

To fix the above error, run the following script from the root of `etcd` repository:

```
```bash
./scripts/genproto.sh
```
```

#### ### Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If

an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect `etcd`, usually the module (e.g. `M1`, not part of `etcd`, but used by `etcd`) which depends on it should bump the dependency (`D1`), and then `etcd` just needs to bump `M1`. However, if the module (`M1`) somehow doesn't bump the problematic dependency, then `etcd` can still bump it (`D1`) directly following the same steps above. But as a long-term solution, `etcd` should try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first

way. Eventually we should fix the issue and ensure all modules depend on the same version of the dependency.

### ### Known incompatible dependency updates

#### #### arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

### ### Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.

Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),

and everyone is welcome to participate; you just need to register your name in the worksheet.

### ## Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to execute it for 3.4.

### ## Golang versions

The etcd project aims to maintain a development branch that is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained

to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

## Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting from 3.6, and the first raft release is v3.6.0, so etcd 3.6.0 depends on raft v3.6.0.

Please see the table below:

| etcd versions |  | bbolt versions |  | raft versions |  |
|---------------|--|----------------|--|---------------|--|
| -----         |  | -----          |  | -----         |  |
| 3.4.x         |  | v1.3.x         |  | N/A           |  |
| 3.5.x         |  | v1.3.x         |  | N/A           |  |
| 3.6.x         |  | v1.4.x         |  | v3.6.x        |  |

# Golang modules

The etcd project (since version 3.5) is organized into multiple [golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions (like protos & proto-generated libraries) that defines communication protocol between etcd clients and servers.
- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd without being specific to etcd itself. A package belongs here only if it could possibly be moved out into its own repository in the future.



Please avoid adding here code that has a lot of dependencies on its own, as they automatically become dependencies of the client library (that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**

- implementation of distributed consensus protocol. Should have no etcd specific code. Hosted in a separate repository: <https://github.com/etcd-io/raft>.

- **go.etcd.io/etcd/server/v3** - etcd implementation.

The code in this package is internal to etcd and should not be consumed by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.

Notice: All unit tests (fast and not requiring cross-module dependencies) should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.

Hosted in a separate repository: <https://github.com/etcd-io/bbolt>.

### ### Operations

1. All etcd modules should be released in the same versions, e.g.

`go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

The consistent updating of versions can be performed using:

```
```shell script
% DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
```
```

2. The released modules should be tagged according to <https://golang.org/ref/mod#vcs-version> rules, i.e. each module should get its own tag.

The tagging can be performed using:

```
```shell script
% DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
```
```

3. All etcd modules should depend on the same versions of underlying dependencies.

This can be verified using:

```
```shell script
% PASSES="dep" ./test.sh
```
```

4. The go.mod files must not contain dependencies not being used and must conform to `go mod tidy` format.

This is being verified by:

```
```
```

```
% PASSES="mod_tidy" ./test.sh
```

```
```
```

5. To trigger actions across all modules (e.g. auto-format all files), please use/expand the following script:

```
```shell script
```

```
% ./scripts/fix.sh
```

```
```
```

###

Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:

- Splitting etcdmigrate/etcdadm out of etcdctl binary.

Thanks to this etcdctl would become clearly a command-line wrapper around network client API,

while etcdmigrate/etcdadm would support direct physical operations on the etcd storage files.

- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code so carries additional risk & dependencies.

- Deprecation of support for v2 protocol.

# Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide

guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.
- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

## Frequently asked questions

### How to get a stack trace

```
``` bash
$ kill -QUIT $PID
```
```

### How to get the etcd version

```
``` bash
$ etcd --version
```
```

### How to get etcd configuration and log when it runs as systemd service etcd2.service

```
``` bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```
```

Due to an upstream systemd bug, journald may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: <https://github.com/etcd-io/etcd/issues/new>  
[filing-good-bugs]: <http://fantasai.inkedblade.net/style/talks/filing-good-bugs/>  
# Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

| Role                   | Responsibilities                    | Requirements                                        | Defined by |
|------------------------|-------------------------------------|-----------------------------------------------------|------------|
| Member                 | Active contributor in the community | Sponsored by 2 reviewers and multiple contributions |            |
| etcd GitHub org member |                                     |                                                     |            |

| Reviewer | Review contributions from other members | History of review and authorship |  
[OWNERS] file reviewer entry |  
| Maintainer | Set direction and priorities for the project | Demonstrated responsibility and excellent technical judgement | [OWNERS] file approver entry |

## ## New contributors

New contributors should be welcomed to the community by existing members, helped with PR workflow, and directed to relevant documentation and communication channels.

## ## Established community members

Established community members are expected to demonstrate their adherence to the principles in this document, familiarity with project organization, roles, policies, procedures, conventions, etc., and technical and/or writing ability. Role-specific expectations, responsibilities, and requirements are enumerated below.

## ## Member

Members are continuously active contributors to the community. They can have issues and PRs assigned to them. Members are expected to remain active contributors to the community.

**\*\*Defined by:\*\*** Member of the etcd GitHub organization.

## ### Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **\*\*merged\*\***.
  - Filing or commenting on issues on GitHub
- Contributing to community discussions (e.g. meetings, Slack, email discussion forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)
- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

### ### Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

**\*\*Note:\*\*** Members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a *\*reviewer\**.

### ## Reviewers

Reviewers are contributors who have demonstrated greater skill in reviewing the code from other contributors. They are knowledgeable about both the codebase and software engineering principles. Their LGTM counts towards merging a code change into the project. A reviewer is generally on the ladder towards maintainership.

**\*\*Defined by:\*\*** *\*reviewers\** entry in the [OWNERS] file.

### ### Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

### ### Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

### ## Maintainers

Maintainers are first and foremost contributors who have shown they are committed to the long-term success of a project. Maintainership is about building trust with the current maintainers and being a person that they can depend on to make decisions in the best interest of the project in a consistent manner.

**\*\*Defined by:\*\*** \*approvers\* entry in the [OWNERS] file.

### ### Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to [etcd-maintainers-private@googlegroups.com](mailto:etcd-maintainers-private@googlegroups.com)
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.

- Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.

- With your membership approved you are expected to:
  - Open a PR and add an entry to the [OWNERS] file
  - Subscribe to [etcd-maintainers@googlegroups.com](mailto:etcd-maintainers@googlegroups.com) and [etcd-maintainers-private@googlegroups.com](mailto:etcd-maintainers-private@googlegroups.com)
  - Request to join [etcd-maintainer teams of etcd organization of GitHub](<https://github.com/orgs/etcd-io/teams/maintainers-etcd>)
  - Request to join the private slack channel for etcd maintainers on [kubernetes slack](<http://slack.kubernetes.io/>)
  - Request access to etcd-development GCP project where we publish releases
  - Request access to passwords shared between maintainers

### ### Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure the continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

### ### Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers and, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward, they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months, they can be removed by other maintainers. In that case, the inactive maintainer will be first notified via an email. If the situation doesn't improve, they will be removed.

If an emeritus maintainer wants to regain an active role, they can do so by renewing their contributions. Active maintainers should welcome such a move. Retiring other maintainers or regaining the status should require the approval of at least two active maintainers.

### ## Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[OWNERS]: /OWNERS

[contributor guide]: /CONTRIBUTING.md

[membership nomination]: <https://github.com/kubernetes/org/issues/new?assignees=&labels=area%2Fgithub-membership&projects=&template=membership.yml&title=REQUEST%3A+New+membership+for+%3Cyour-GH-handle%3E>

[Kubernetes community membership]: <https://github.com/kubernetes/community/blob/master/community-membership.md>

[emeritus maintainers]: /README.md#etcd-emeritus-maintainers

[security disclosure and release process]: /security/README.md

[two-factor authentication]: <https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication>

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## # Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

## ## Overview

The etcd features fall into three stages: Alpha, Beta, and GA.

### ### Alpha

Any new feature is usually added as an Alpha feature. An Alpha feature is characterized as below:

- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a more stable stage.

### ### Beta

A Beta feature is characterized as below:

- Supported as part of the supported releases of etcd.
- Enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

### ### GA

A GA feature is characterized as below:

- Supported as part of the supported releases of etcd.
- Always enabled; you cannot disable it. The corresponding feature gate is no longer needed.
- Discontinuation of support must follow the feature deprecation policy.

## ## Development Guidelines

### ### Adding a new feature

Any new enhancements to the etcd are typically added as an Alpha feature.

etcd follows the Kubernetes [KEP process](<https://github.com/kubernetes/enhancements/blob/master/keps/sig-architecture/0000-kep-process/README.md>) for new enhancements. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.

- Open a [KEP](<https://github.com/kubernetes/enhancements/issues>) issue

- It must provide a clear need for the proposed feature.
- It should list development work items as checkboxes. There must be one work item towards future graduation to Beta.
- Label the issue with ``/sig etcd``.
- Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a [KEP](https://github.com/kubernetes/enhancements) Pull Request (PR).
  - The KEP template can be simplified for etcd.
  - It must provide clear graduation criteria for each stage.
  - The KEP doc should reside in [keps/sig-etcd](https://github.com/kubernetes/enhancements/tree/master/keps/sig-etcd/)
- Open Pull Requests (PRs) in [etcd](https://github.com/etcd-io/etcd)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - Add an Alpha [feature gate](https://etcd.io/docs/v3.6/feature-gates/).
    - Any code changes or configuration flags related to the implementation of the feature must be gated with the feature gate e.g. ``if cfg.ServerFeatureGate.Enabled(features.FeatureName)``.
    - Add a CHANGELOG entry.
- At least two maintainers must approve the KEP and related code changes.

### ### Graduating a feature to the next stage

It is important that features don't get stuck in one stage. They should be revisited and moved to the next stage once they meet the graduation criteria listed in the KEP. A feature should stay at one stage for at least one release before being promoted.

### #### Provide implementation

If a feature is found ready for graduation to the next stage, open a Pull Request (PR) with the following changes.

- Update the feature ``PreRelease`` stage in ``server/features/etcd_features.go``.
- Update the status in the original KEP issue.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

### ### Deprecating a feature

#### #### Alpha

Alpha features can be removed without going through the deprecation process.

- Remove the feature gate in ``server/features/etcd_features.go``, and clean up all relevant code.
- Close the original KEP issue with reasons to drop the feature.

#### #### Beta and GA

As the project evolves, a Beta/GA feature may sometimes need to be deprecated and removed. Such a situation

should be handled using the steps below:

- A Beta/GA feature can only be deprecated after at least 2 minor or major releases.
- Update original KEP issue if it has not been closed or create a new etcd issue with reasons and steps to deprecate the feature.
- Add the feature deprecation documentation in the release notes and feature gates documentation of the next minor/major release.
- In the next minor/major release, set the feature gate to `{Default: false, PreRelease: featuregate.Deprecated, LockedToDefault: false}` in `server/features/etcd\_features.go`.  
Deprecated feature gates must respond with a warning when used.
  - If the feature has GAed, and the original gated codes has been cleaned up, add the disablement codes back with the feature gate.
- In the minor/major release after the next, set the feature gate to `{Default: false, PreRelease: featuregate.Deprecated, LockedToDefault: true}` in `server/features/etcd\_features.go`, and start cleaning the code.

At least two maintainers must approve the work. Patch releases should not be considered for deprecation.

#### # Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *\*levels\**. A log message's level is determined according to these conventions:

*\* Debug:* Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.

*\* Examples:*

- \* Send a normal message to a remote peer*
- \* Write a log entry to disk*

*\* Info:* Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.

*\* Examples:*

- \* Startup configuration*
- \* Start to do a snapshot*

*\* Warning:* (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.

*\* Examples:*

- \* Failure to send a raft message to a remote peer*
- \* Failure to receive heartbeat message within the configured election timeout*

*\* Error:* Data has been lost, a request has failed for a bad reason, or a required resource has been lost.

*\* Examples:*

- \* Failure to allocate disk space for WAL*

*\* Panic:* Unrecoverable or unexpected error situation that requires stopping execution.

*\* Examples:*

- \* Failure to create the database*

\* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.

\* Examples:

- \* Failure to find the data directory
- \* Failure to run a test function

[zap]: <https://github.com/uber-go/zap>

# Bump etcd Version in Kubernetes

This guide will walk through the update of etcd in Kubernetes to a new version (`kubernetes/kubernetes` repository).

> Currently we bump etcd v3.5.x for K8s release-1.33 and lower versions, and we bump etcd v3.6.x for K8s release-1.34 and higher versions.

You can use this [issue](<https://github.com/kubernetes/kubernetes/issues/131101>) as a reference when updating the etcd version in Kubernetes.

Bumping the etcd version in Kubernetes consists of two steps.

- \* Bump etcd client SDK
- \* Bump etcd image

> The commented lines in this document signifies the line to be changed

## Bump etcd client SDK

> Reference: [link](<https://github.com/kubernetes/kubernetes/pull/131103>)

You can refer to the guide [here](<https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/vendor.md>) under the **\*\*Adding or updating a dependency\*\*** section.

1. Get all the etcd modules used in Kubernetes.

```
```bash
$ grep 'go.etcd.io/etcd/' go.mod
| awk '{print $1}'
go.etcd.io/etcd/api/v3
go.etcd.io/etcd/client/pkg/v3
go.etcd.io/etcd/client/v3
go.etcd.io/etcd/client/v2
go.etcd.io/etcd/pkg/v3
go.etcd.io/etcd/raft/v3
go.etcd.io/etcd/server/v3
```
```

2. For each module, in the root directory of the `kubernetes/kubernetes` repository, fetch the new version in `go.mod` using the following command (using `client/v3` as an example):

```
```bash
```

```
hack/pin-dependency.sh go.etcd.io/etcd/client/v3 NEW_VERSION
...
```

3. Rebuild the `vendor` directory and update the `go.mod` files for all staging repositories using the command below. This automatically updates the licenses.

```
```bash
hack/update-vendor.sh
...
```

4. Check if the new dependency requires newer versions of existing dependencies we have pinned. You can check this by:

- \* Running `hack/lint-dependencies.sh` against your branch and against `master` and comparing the results.
- \* Checking if any new `replace` directives were added to `go.mod` files of components inside the staging directory.

```
Bump etcd image
```

```
Build etcd image
```

> Reference: [link 1](<https://github.com/kubernetes/kubernetes/pull/131105>) [link 2](<https://github.com/kubernetes/kubernetes/pull/131126>)

1. In `build/dependencies.yaml`, update the `version` of `etcd-image` to the new version. Update `golang: etcd release version` if necessary.

```
```yaml
- name: "etcd-image"
  # version: 3.5.17
  version: 3.5.21
  refPaths:
  - path: cluster/images/etcd/Makefile
    match: BUNDLED_ETCD_VERSIONS?|
---
- name: "golang: etcd release version"
  # version: 1.22.9
  version: 1.23.7 # https://github.com/etcd-io/etcd/blob/main/CHANGELOG/CHANGELOG-3.6.md
...
```

2. In `cluster/images/etcd/Makefile`, include the new version in `BUNDLED\_ETCD\_VERSIONS` and update the `LATEST\_ETCD\_VERSION` as well (the image tag will be generated from the `LATEST\_ETCD\_VERSION`). Update `GOLANG\_VERSION` according to the version used to compile that release version (`"golang: etcd release version"` in step 1).

```
```Makefile
BUNDLED_ETCD_VERSIONS?=3.4.18 3.5.17
BUNDLED_ETCD_VERSIONS?=3.4.18 3.5.21
```



```
LATEST_ETCD_VERSION?=3.5.17
LATEST_ETCD_VERSION?=3.5.21

GOLANG_VERSION := 1.22.9
GOLANG_VERSION := 1.23.7
...

```

3. In `cluster/images/etcd/migrate/options.go`, include the new version in the `supportedEtcdVersions` slice.

```
```go
var (
    // supportedEtcdVersions = []string{"3.4.18", "3.5.17"}
    supportedEtcdVersions = []string{"3.4.18", "3.5.21"}
)
...

```

Publish etcd image

> Reference: [link](https://github.com/kubernetes/k8s.io/pull/7957)

1. When the previous step is merged, a post-commit job will run to build the image. You can find the newly built image in the [registry](https://gcr.io/k8s-staging-etcd/etcd).

2. Locate the newly built image and copy its SHA256 digest.

3. Inside the `kubernetes/k8s.io` repository, in `registry.k8s.io/images/k8s-staging-etcd/images.yaml`, create a new entry for the desired version and copy the SHA256 digest.

```
```yaml
"sha256:b4a9e4a7e1cf08844c7c4db6a19cab380fbf0aad702b8c01e578e9543671b9f9": ["3.5.17-0"]
ADD:
"sha256:d58c035df557080a27387d687092e3fc2b64c6d0e3162dc51453a115f847d121": ["3.5.21-0"]
...

```

### Update to use the new etcd image

> Reference: [link](https://github.com/kubernetes/kubernetes/pull/131144)

1. In `build/dependencies.yaml`, change the `version` of `etcd` to the new version.

```
```yaml
# etcd
- name: "etcd"
# version: 3.5.17
version: 3.5.21
refPaths:
- path: cluster/gce/manifests/etcd.manifest

```

```
match: etcd_docker_tag|etcd_version
---
```

2. In `cluster/gce/manifests/etcd.manifest``, change the image tag to the new image tag and `TARGET_VERSION`` to the new version.

```
```manifest
// "image": "{{ pillar.get('etcd_docker_repository', 'registry.k8s.io/etcd') }}:{{ pillar.get('etcd_docker_tag', '3.5.17-0') }}"

"image": "{{ pillar.get('etcd_docker_repository',
'registry.k8s.io/etcd') }}:{{ pillar.get('etcd_docker_tag', '3.5.21-0') }}"

{ "name": "TARGET_VERSION",
// "value": "{{ pillar.get('etcd_version', '3.5.17') }}"
"value": "{{ pillar.get('etcd_version', '3.5.21') }}"
},

```

3. In `cluster/gce/upgrade-aliases.sh``, update the exports for `ETCD_IMAGE`` to the new image tag and `ETCD_VERSION`` to the new version.

```
```sh
# export ETCD_IMAGE=3.5.17-0
export ETCD_IMAGE=3.5.21-0
# export ETCD_VERSION=3.5.17
export ETCD_VERSION=3.5.21
---
```

4. In `cmd/kubeadm/app/constants/constants.go``, change the `DefaultEtcdVersion`` to the new version. In the same file, update `SupportedEtcdVersion`` accordingly.

```
```go
// DefaultEtcdVersion = "3.5.17-0"
DefaultEtcdVersion = "3.5.21-0"

SupportedEtcdVersion = map[uint8]string{
// 30: "3.5.17-0",
// 31: "3.5.17-0",
// 32: "3.5.17-0",
// 33: "3.5.17-0",
30: "3.5.21-0",
31: "3.5.21-0",

```

```
32: "3.5.21-0",
33: "3.5.21-0",
}
...
```

5. In `hack/lib/etcd.sh`, update the `ETCD_VERSION`.

```
```sh
# ETCD_VERSION=${ETCD_VERSION:-3.5.17}
ETCD_VERSION=${ETCD_VERSION:-3.5.21}
...
```

6. In `staging/src/k8s.io/sample-apiserver/artifacts/example/deployment.yaml`, update the etcd image used.

```
```yaml
- name: etcd
image: gcr.io/etcd-development/etcd:v3.5.17
image: gcr.io/etcd-development/etcd:v3.5.21
...
```

7. In `test/utls/image/manifest.go`, update the etcd image tag.

```
```go
// configs[Etcd] = Config{list.GcEtcdRegistry, "etcd", "3.5.17-0"}
configs[Etcd] = Config{list.GcEtcdRegistry, "etcd", "3.5.21-0"}
...
```

1.93 google-cloud-go-storage 1.41.0

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1.94 go-gorm-caches 4.0.5

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1.95 automaxprocs 1.5.3

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1.96 cloudevents-sdk-go-binding-format-protobuf 2.15.2

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1.97 mock 0.4.0

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1.98 protoc-gen-validate 1.2.1

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1.100 memory 1.8.0

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1.101 prometheus-common 0.62.0

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1.102 more-itertools 10.2.0

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1.103 google-cloud-go-monitoring 1.24.0

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package compute_test

import (
    "context"

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

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{

```

```

// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {

```

```

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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```

```

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package compute_test

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

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

    req := &computepb.DeleteLicenseRequest{
        //

```

```

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

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

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

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

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

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}

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

```



```
defer c.Close()
```

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

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

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

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```

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computeapb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{

```

```

gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
        Initial: 100 * time.Millisecond,
        Max:     60000 * time.Millisecond,
        Multiplier: 1.30,
    },
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    )),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        )),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        )),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

```



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

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

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

// Wrapper methods routed to the internal client.

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

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

// Connection returns a connection
```

```

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

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

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

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

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This

```

```

resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

    // The http client.
    httpClient *http.Client

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

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

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

    logger *slog.Logger
}

// 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,
    logger: internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

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

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

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

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

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

```

```

// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

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

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

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

    baseUrl.RawQuery = params.Encode()

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

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    })

```

```

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
if err != nil {
    return err
}

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

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

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

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

    hds = append(c.xGoogHeaders,

```

```

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

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

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

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

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {

```

```

params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds,
"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
return err
}

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

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

// Insert create a License resource in the specified project. Caution This resource is intended

```



```

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

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

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

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
        if err != nil {
            return err
        }
    })
}

```

```

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

```

```

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

```

// List retrieves the

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

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts

```

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

        params := url.Values{}
    }
}

```

```

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

baseUrl.RawQuery = params.Encode()

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

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

```

```

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

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

return it
}

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

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

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

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

```

```

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

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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
return err
}

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

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

```

```

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

//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

```

```

// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                     2,
        "EVERYONE":                  3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

```



```

}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)

```

```

*p = x
return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:

```

```

//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,

```

0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,

```

0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {

```

```

return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

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

```

```

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/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
        "EVERYONE":                3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
}

```

```

return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{

```

```

"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":         2,
"READER":         3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference

```

```

// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,

```

0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
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0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
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0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,

```

0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
}

```



```

2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

```

```

// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.

```

```

func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
    // Allow automatic assignments triggered by data plane operations.
    AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
    `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

```

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

```

```

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```



```

// Required. The license pool to update.
//
// The license pool's name field is used to identify the license pool to
// update. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`.
LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
//
Required. The list of fields to update.
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
*x = UpdateLicensePoolRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

```

```

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
// [LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()

```

```

{
*x = UnassignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

func (x *UnassignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

```

```

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//

```

```

[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procedure.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procedure_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procedure_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
return x.Parent
}
return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
if x != nil {
return x.PageSize
}
return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
if x != nil {
return x.PageToken
}
return ""
}

// A licensed user.
type LicensedUser struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Username.
// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
// Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {

```



```

*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

```

```

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procedure.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procedure_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procedure_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

```

```

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,

```

0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,

0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
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0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
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0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,
0x2f, 0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,
0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3f, 0x2e, 0x67,

0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
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0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,
0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,
0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,
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0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,

```

0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
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0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),
        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil),
        // 8:

```

```

google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil),    // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),    // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),    // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest

```

```

1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
    // Assigns a license to a user.
    Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts

```

```

...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)

```

```

err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
if err != nil {
return nil, err
}
return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
// Gets the license pool.
GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
// Updates the license pool if one exists for this Order.
UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
// Assigns a license to a user.
Assign(context.Context, *AssignRequest)
(*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {

```



```

return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(GetLicensePoolRequest)
if err := dec(in);
err != nil {
return nil, err
}
if interceptor == nil {
return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(UpdateLicensePoolRequest)
if err := dec(in); err != nil {
return nil, err
}
if interceptor == nil {
return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{}))

```

```

error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{})) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{})) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
}

```

```

info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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1.104 py3-parsing 3.1.4-r0

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1.105 pflag 1.0.5

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1.106 gofuzz 1.2.0

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1.107 procps 4.0.4-r2

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1.108 go-playground-locales 0.14.1

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1.112 jsonreference 0.21.0

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1.117 zap-exp 1.27.0

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1.118 pq 1.10.7

1.118.1 Available under license :

```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
```

```

func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and

```

```

setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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```

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1.119 easyjson 0.9.0

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1.120 golang-genproto 0.0.0-20230410155749-daa745c078e1

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1.121 google-cloud-go-auth 0.14.1

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:

```

```

"GROUP",
3: "EVERYONE",
}
Permission_GrantType_value = map[string]int32{
"GRANTEE_TYPE_UNSPECIFIED": 0,
"USER": 1,
"GROUP": 2,
"EVERYONE": 3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
p := new(Permission_GrantType)
*p = x
return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.

```

```

Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

```



```

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

```

```

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
    0x4e,
    0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
    0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
    0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
    0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,

```

```

0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
    (Permission_Role)(0),       // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),         // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
    return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

```

```

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

//go:build go1.23

package compute_test

import (
    "context"

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

func ExampleLicensesClient_List_all() {
    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.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

```

```

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &procurementpb.AssignRequest{

```



```

// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

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

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after

```

```

// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        // https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
    "context"

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

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```

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

// TODO: Use client.
_ = c
}

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

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

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

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

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

```

```

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

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

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

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:

```



```
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

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

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package compute

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

"time"

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

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

"google.golang.org/api/iterator"

"google.golang.org/api/option"

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

```

httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}

```

```

    }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

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

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.

```



```

//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

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

// Wrapper methods routed to the internal client.

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

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

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

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

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

```

```

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

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

    // The http client.

```

```

httpClient *http.Client

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

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

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

logger *slog.Logger
}

// 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,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

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

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

func defaultLicensesRESTClientOptions() []option.ClientOption {

```

```

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

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

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

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```

```

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

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

baseUrl.RawQuery = params.Encode()

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

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

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

```

```

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

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

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

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

```

```

    return err
}

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

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

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

    baseUrl.RawQuery = params.Encode()

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

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}

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

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

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

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

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

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.

```



```

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

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

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

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

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

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from
        client and context metadata.
        hds := append(c.xGoogHeaders, "Content-Type", "application/json")
        headers := gax.BuildHeaders(ctx, hds...)
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
```

```

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

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
if err != nil {
    return err
}
if err := unmarshal(buf, resp); err != nil {
    return err
}

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

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

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

return it
}

```

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

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()

```

```

jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

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

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

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

    return nil
}, opts...)

```

```

if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

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

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

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
    return err
}

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

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// https://www.apache.org/licenses/LICENSE-2.0
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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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
//
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// You may obtain a copy of the License at
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// https://www.apache.org/licenses/LICENSE-2.0
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```

```

// See the License for the specific language governing permissions and
// limitations under the License.

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

package compute_test

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

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

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request

```

```

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

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

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
// Copyright 2025 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
//
//   https://www.apache.org/licenses/LICENSE-2.0
//
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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.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

```

```

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

```

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.

```

```

// Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {

```

```

state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. The license pool to update.
//
// The license pool's name field is used to identify the license pool to
// update. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`.
LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
//
Required. The list of fields to update.
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
*x = UpdateLicensePoolRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
return

```



```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

```

```

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
}

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

```

```

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsername() []string {
    if x != nil {
        return x.Username
    }
}

```

```

return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

```

```

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

```

```

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

```



```

}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
        0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
        0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
        0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
        0x6f,
        0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
        0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
        0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
        0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    }

```

0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
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0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
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0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
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0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
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0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
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0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
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0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
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0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
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0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
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0x0b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x30, 0x0a, 0x15,
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0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65,
0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x17, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01, 0x20,
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0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,

```

0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest

```

```

(*UnassignResponse)(nil),          // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    8, // 13:

```

```

google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
    error)
    // Assigns a license to a user.
    Assign(ctx
    context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
    (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

```

```

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

```

```

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in

```

```

*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

```

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible implementations.

```

type UnimplementedLicenseManagementServiceServer struct {
}

```

```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

```

```

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

```



```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if

```

```

interceptor == nil {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
reflect "reflect"
sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const

(
// Verify that this generated code is sufficiently up-to-date.

```

_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                   2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {

```



```

return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":          2,
        "READER":          3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {

```

```

p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be

```

```

// generated on create. Examples:
//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
    File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,

```

0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
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0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
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0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,

```

0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GranteeType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()

```

```

{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
    return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.122 echo 4.9.1

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1.123 x-net 0.17.0

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1.124 lumberjack 2.0.0

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1.125 gorm.io-datatypes 1.2.5

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1.126 jwilder-gojq 0.0.0-20161018055142-c550732d4a52

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1.127 gin-swagger 1.6.0

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1.128 distro 1.9.0

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1.129 sqlx 1.3.4

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1.130 benbjohnson-clock 1.1.0

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1.131 expat 2.6.4-r0

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1.132 go.temporal.io-version 0.3.0

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1.133 tail 1.0.0

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1.134 rpc 2.0.3

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1.135 logrus 1.9.3

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1.136 golang-jwt 4.5.1

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1.137 go-grpc-middleware 1.3.0

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1.138 pgpassfile 1.0.0

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1.139 xwb1989-sqlparser 0.0.0-20180606152119-120387863bf2

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Wenbin Xiao 2015

Started this project and maintained it.

Andrew Brampton 2017

Merged in multiple upstream fixes/changes.

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1.140 nkeys 0.4.10

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1.141 benbjohnson-clock 1.3.5

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1.142 logr 1.2.3

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1.144 go-jose-go-jose 2.6.3

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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A. HISTORY OF THE SOFTWARE

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.149 protobuf 1.3.2

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1.150 inf 0.9.1

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```

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1.155 bark 1.0.0

1.155.1 Available under license :

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1.156 codegangsta-cli 2.4.0

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1.157 sqlite 3.48.0-r0

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=====

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-----

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used to help implement the configuration and build logic. In other words, there are some non-public-domain files used to implement:

> ~~~

./configure && make

~~~~

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Non-public-domain

code included in this repository includes:

- * The ["autosetup"](<http://msteveb.github.io/autosetup/>) configuration system that is contained (mostly) the autosetup/ directory, but also includes the "./configure" script at the top-level of this archive. Autosetup has a separate BSD-style license. See the [autosetup/LICENSE](<http://msteveb.github.io/autosetup/license/>) for details.
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```
> ~~~  
rm -rf configure autosetup autoconf  
~~~
```

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autosetup - A build environment "autoconfigurator"

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1.158 go-playground-universal-translator

0.18.1

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1.159 google-cloud-go-iam 0.13.0

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```
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// limitations under the License.

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

package compute

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

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)
```

```

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete:      []gax.CallOption{},
        Get:         []gax.CallOption{},
        GetIamPolicy: []gax.CallOption{},
        Insert:      []gax.CallOption{},
        List:        []gax.CallOption{},
        SetIamPolicy: []gax.CallOption{},
        TestIamPermissions: []gax.CallOption{},
    }
}

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

// LicensesClient
is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//

```

```

// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

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

// Wrapper methods routed to the internal client.

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

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

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

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

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

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource

```

exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {  
    return c.internalClient.Insert(ctx, req, opts...)  
}
```

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

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

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

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

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

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

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

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

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

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

```

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

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

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

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

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

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

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

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

```

```

    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

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

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

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

```

```

baseUrl.RawQuery = params.Encode()

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

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

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

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

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

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

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{

```



```

c:
    c.operationClient,
    proto: resp,
    project: req.GetProject(),
},
}
return op, nil
}

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

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

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

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

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

```

```

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

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

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

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

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

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

```

```

}

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

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

```

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

```

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

```

```

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

baseUrl.RawQuery = params.Encode()

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

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

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

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

```

```

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

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

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

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

return it
}

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

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

```

```

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

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

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

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

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

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

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

```



```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

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

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

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

```

```

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

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

if err := unmarshal.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 *compute.License.
type LicenseIterator struct {
    items []*compute.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 []*compute.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() (*compute_pb.License, error) {
var item *compute_pb.License
if err := it.nextFunc(); err != nil {
return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

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

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

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

package compute

import (

"bytes"

"context"

"fmt"

"io/ioutil"

"net/http"

"net/url"

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

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


```

"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

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

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

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

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

```

```

// Wrapper methods routed to the internal client.

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

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

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

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

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

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

    // The http client.
    httpClient *http.Client

```

```

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

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

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

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

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

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

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go",
        versionGo()}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

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

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
(*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

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

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

```

```

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

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

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

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

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

```

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

```

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

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

```

```

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

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

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```

```

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

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

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

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

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

```



```

_ = resp
}

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

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

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

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

```

```

// TODO: Handle error.
}

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

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

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

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range
    values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:

```

```

// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

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

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

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

```

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// 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/compute_pb"
)

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

    // TODO: Use client.
    _ = c
}

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

```

```

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

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

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

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

```

1.160 memory 1.4.0

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1.161 x-net 0.31.0

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1.162 backoff 4.2.0

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1.163 genproto-googleapis-rpc 0.0.0-

20241007155032-5fef90f89a9

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1.164 modern-go-concurrent 0.0.0- 20180306012644-bacd9c7ef1dd

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1.165 murmur 1.1.8

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1.166 apk-tools 2.14.6-r3

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1.170 color 1.18.0

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1.171 gorm-gorm 1.25.12

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1.172 contrib-instrumentation-

google.golang.org-grpc-otelgrpc 0.36.4

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1.173 proto-otlp 1.3.1

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1.174 gin-contrib-sse 1.0.0

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1.175 pgx 5.7.2

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1.176 gofork 1.7.6

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1.177 py3-packaging 24.2-r0

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1.178 bash 5.2.37-r0

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1.179 ca-certificates 20241121-r1

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1.186 aws-sdk-go 1.44.151

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1.187 pyproject-hooks 1.0.0

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1.189 apidbere-robot-gorm-resolver 0.0.0-20240924162604-65cbc25f5105

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1.190 google-cloud-go 0.118.2

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

//go:build go1.23

package compute_test

import (
    "context"

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

```

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

```

```

import (
    context "context"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect
    "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
    reflect "reflect"
    sync "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {

```

```

return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()

```

```

}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

```



```

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`

```

```

}

func
(x *AssignRequest) Reset() {
*x = AssignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
}

```

```

}
return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

```

```

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
    }
}

```

```

:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```



```

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
== nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

unknownFields protoimpl.UnknownFields

// Username.

// Format: `name@domain.com`.

Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`

//

Output only. Timestamp when the license was assigned.

AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign\_time,json=assignTime,proto3" json:"assign\_time,omitempty"`

// Output only. Timestamp when the license was recently used. This may not be

// the most recent usage time, and will be updated regularly (within 24

// hours).

RecentUsageTime *timestamppb.Timestamp

`protobuf:"bytes,3,opt,name=recent\_usage\_time,json=recentUsageTime,proto3" json:"recent\_usage\_time,omitempty"`

}

func (x *LicensedUser) Reset() {

 *x = LicensedUser{}

 mi :=

 &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]

 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

 ms.StoreMessageInfo(mi)

}

func (x *LicensedUser) String() string {

 return protoimpl.X.MessageStringOf(x)

}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {

 mi :=

 &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]

 if

 x != nil {

 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

 if ms.LoadMessageInfo() == nil {

 ms.StoreMessageInfo(mi)

 }

 return ms

 }

 return mi.MessageOf(x)

}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.

func (*LicensedUser) Descriptor() ([]byte, []int) {

 return

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType

```

```

struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has

```

```

// passed, the license will be automatically unassigned from the user. Must
// be at least 7 days, if set. If unset, the license will never expire.
InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
*x = AssignmentProtocol_AutoAssignmentType{}
mi
:= &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
if x != nil {
return x.InactiveLicenseTtl
}
return nil
}

```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor
```

```
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
```

```
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
```

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0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
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0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
}

```

```

return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil),          // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),          // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),         // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),       // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),          // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),          // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),            // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name

```

```

-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:
type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof

```

```

Wrappers = []any{
    (*AssignmentProtocol_ManualAssignmentType_)(nil),
    (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
type x struct{}
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)

```

```

// Assigns a license to a user.
Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {

```



```

    return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

```

```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {

```

```

in := new(UpdateLicensePoolRequest)
if err := dec(in); err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{

```

```

Server:   srv,
FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:   srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:   _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:   _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:   _LicenseManagementService_Assign_Handler,
        },
    },
}

```

```

{
  MethodName: "Unassign",
  Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
// Copyright 2025 Google LLC
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// you may not use this file except in compliance with the License.
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//
// https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

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

package procurement_test

import (
  "context"

  procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
  procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
  longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
  "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
  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 := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

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

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        //
        TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
    }
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
    // TODO: Fill request struct fields.
    //
    See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
    quest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

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

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(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
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// https://www.apache.org/licenses/LICENSE-2.0
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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_test

import (
    "context"

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

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

```

```

// TODO: Use client.
_ = c
}

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

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

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

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

    req := &computepb.GetLicenseRequest{

```

```

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

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

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

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

```

```

}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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
    }
}

```

```

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*compute.LicensesListResponse)
}
}

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

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

```

```

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

```

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

package compute

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

"time"

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

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

"google.golang.org/api/iterator"

"google.golang.org/api/option"

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

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

"google.golang.org/grpc"

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

"google.golang.org/protobuf/proto"

)

var

```
newLicensesClientHook clientHook
```

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

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

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{  
        Delete: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
        Get: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
            gax.WithRetry(func() gax.Retryer {  
                return gax.OnHTTPCodes(gax.Backoff{  
                    Initial: 100 * time.Millisecond,  
                    Max: 60000 * time.Millisecond,  
                    Multiplier: 1.30,  
                },  
                    http.StatusGatewayTimeout,  
                    http.StatusServiceUnavailable)  
            }),  
        },  
        GetIamPolicy: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
            gax.WithRetry(func() gax.Retryer {  
                return gax.OnHTTPCodes(gax.Backoff{  
                    Initial: 100 * time.Millisecond,  
                    Max: 60000 * time.Millisecond,  
                    Multiplier: 1.30,  
                },  
                    http.StatusGatewayTimeout,  
                    http.StatusServiceUnavailable)  
            }),  
        },  
        Insert: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
        List: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
    }
```

```

gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
    Initial: 100 * time.Millisecond,
    Max:     60000 * time.Millisecond,
    Multiplier: 1.30,
},
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

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

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

    // The call options for this service.

```

```

CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

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

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

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

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

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

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

```

```

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

    // The http client.
    httpClient *http.Client

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

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

```



```

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

logger *slog.Logger
}

// 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,
logger:  internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

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

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

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

```

```

    internaloption.EnableNewAuthLibrary(),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

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

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

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

```

```

}

baseUrl.RawQuery = params.Encode()

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

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

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

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

```

```

return op, nil
}

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

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

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

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

```

```

}
return resp, nil
}

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

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

    baseUrl.RawQuery = params.Encode()

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")

```

```

    if err != nil {
        return err
    }

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

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

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

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

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

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)

```

```

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

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

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

```

// List retrieves the

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

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {

```

```

resp := &computepb.LicensesListResponse{}
if pageToken != "" {
    req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32
{
    req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

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

baseUrl.RawQuery = params.Encode()

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

```



```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
if err != nil {
    return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

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

```

```

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

```

```

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

return it
}

```

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

```

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

```

```

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

```

```

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

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

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

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

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

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

intended for use only by third-party partners who are creating Cloud Marketplace images.

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

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

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

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

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
        if err !=
        nil {
            return err
        }
    })
```

```

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

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2025 Google LLC
//
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// you may not use this file except in compliance with the License.
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//
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

// Copyright 2025 Google LLC
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// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc      v4.25.3

```

```
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    reflect "reflect"
    sync
    "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
    }
)
```

```

    "EVERYONE":          3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (

```

```

Permission_Role_name = map[int32]string{
    0: "ROLE_UNSPECIFIED",
    1: "OWNER",
    2: "WRITER",
    3: "READER",
}
Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":            1,
    "WRITER":            2,
    "READER":            3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,

```

```

you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```



```

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

var

File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
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0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),    // 2: google.ai.generativelanguage.v1beta.Permission
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums: 2,
            NumMessages: 1,
            NumExtensions: 0,
            NumServices: 0,
        },
        GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
    = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

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

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

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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//

```

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

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1alpha/permission.proto

```

package generativelanguagepb

import (
    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    reflect "reflect"
    sync
    "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
        "EVERYONE":                3,
    }
)

```

```

}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{

```

```

0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service

```

```

accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```



```

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

var

File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

```
var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
    0x4e,
    0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
    0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
    0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
    0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
    0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
    0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
    0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
    0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
    0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
    0x2e, 0x63, 0x6f, 0x6d,
```

```

0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}

func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
        EnumInfos:     file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
        MessageInfos:  file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
    = nil
    file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
    file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

```

1.191 semver 4.0.0

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1.195 go-hclog 1.6.3

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1.196 go.uber.org-fx 1.23.0

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1.197 queue 1.1.0

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1.198 go-openapi-jsonpointer 0.21.0

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1.199 pq 1.10.9

1.199.1 Available under license :

```
//go:build go1.10
// +build go1.10
```

```
package pq
```

```
import (
    "context"
    "database/sql/driver"
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
```

```

// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {

```

```
if c, ok := c.(*NoticeHandlerConnector); ok {  
    c.noticeHandler = handler  
    return c  
}  
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}  
}
```

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1.200 proto-otlp 1.5.0

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1.201 x-text 0.21.0

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1.202 cwm-cwm-x24-services-dsl-shared 2.0.0

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  "$schema": "../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../dist/cwm/admin",
  "lib": {
    "entryFile": "public-api.ts"
  }
}
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  "$schema": "../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../dist/cwm/forms",
  "lib": {
```

```

    "entryFile": "public-api.ts"
  }
}
{
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  }
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  "dest": "../../../dist/cwm/job-manager",
  "lib": {
    "entryFile": "public-api.ts"
  }
}
{
  "$schema": "../../../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../../../dist/cwm-lib",
  "assets": [
    "assets"
  ],
  "lib": {
    "entryFile": "src/public-api.ts"
  },
  "allowedNonPeerDependencies": [
    "."
  ]
}

```

```
]
}
```

1.203 fsnotify 1.8.0

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1.204 temporalio-tctl 1.18.0

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package main

import (

"bufio"

"flag"

"fmt"

"os"

"path/filepath"

"strings"

```

)

type (
    // task that adds license header to source
    // files, if they don't already exist
    addLicenseHeaderTask struct {
        license string // license header string to add
        config *config // root directory of the project source
    }

    // command line config params
    config struct {
        licenseFile string
        scanDir    string
        verifyOnly bool
    }
)

// licenseFileName is the name of the license file
const licenseFileName = "./LICENSE"

// unique prefix that identifies a license header
const licenseHeaderPrefix = "// The MIT License"

var (
    // directories to be excluded
    dirBlocklist = []string{".gen/", ".git/", ".vscode/", ".idea/"}
    // default perms for the newly created files
    defaultFilePerms
    = os.FileMode(0644)
)

// command line utility that adds license header
// to the source files. Usage as follows:
//
// ./cmd/copyright/licensegen.go
func main() {
    var cfg config
    flag.StringVar(&cfg.licenseFile, "licenseFile", licenseFileName, "directory to scan")
    flag.StringVar(&cfg.scanDir, "scanDir", ".", "directory to scan")
    flag.BoolVar(&cfg.verifyOnly, "verifyOnly", false, "don't automatically add headers, just verify all files")
    flag.Parse()

    task := newAddLicenseHeaderTask(&cfg)
    if err := task.run(); err != nil {
        fmt.Println(err)
        os.Exit(-1)
    }
}

```

```

}

func newAddLicenseHeaderTask(cfg *config) *addLicenseHeaderTask {
    return &addLicenseHeaderTask{
        config: cfg,
    }
}

func (task *addLicenseHeaderTask) run() error {
    data, err := os.ReadFile(task.config.licenseFile)
    if err != nil {
        return fmt.Errorf("error reading license file, err=%v", err.Error())
    }

    task.license, err = commentOutLines(string(data))
    if err != nil {
        return fmt.Errorf("copyright header failed
to comment out lines, err=%v", err.Error())
    }

    err = filepath.Walk(task.config.scanDir, task.handleFile)
    if err != nil {
        return fmt.Errorf("copyright header check failed, err=%v", err.Error())
    }
    return nil
}

func (task *addLicenseHeaderTask) handleFile(path string, fileInfo os.FileInfo, err error) error {
    if err != nil {
        return err
    }

    if fileInfo.IsDir() {
        return nil
    }

    if !mustProcessPath(path) {
        return nil
    }

    if !strings.HasSuffix(fileInfo.Name(), ".go") {
        return nil
    }

    // Used as part of the cli to write licence headers on files, does not use user supplied input so marked as nsec
    // #nosec
    f, err := os.Open(path)
    if err != nil {

```



```

    return err
}

scanner := bufio.NewScanner(f)
readLineSucc := scanner.Scan()
if !readLineSucc {
    return fmt.Errorf("fail to read first line of file %v", path)
}
firstLine := strings.TrimSpace(scanner.Text())
if err := scanner.Err(); err != nil {
    return err
}
f.Close()

if strings.Contains(firstLine, licenseHeaderPrefix)
{
    return nil // file already has the copyright header
}

// at this point, src file is missing the header
if task.config.verifyOnly {
    if !isFileAutogenerated(path) {
        return fmt.Errorf("%v missing license header", path)
    }
}

// Used as part of the cli to write licence headers on files, does not use user supplied input so marked as nosecc
// #nosec
data, err := os.ReadFile(path)
if err != nil {
    return err
}

return os.WriteFile(path, []byte(task.license+string(data)), defaultFilePerms)
}

func isFileAutogenerated(path string) bool {
    return false
}

func mustProcessPath(path string) bool {
    for _, d := range dirBlocklist {
        if strings.HasPrefix(path, d) {
            return false
        }
    }
    return true
}

```

```

func commentOutLines(str string) (string, error) {
    var lines []string
    scanner := bufio.NewScanner(strings.NewReader(str))
    for scanner.Scan() {
        line := scanner.Text()
        if line == "" {
            lines = append(lines, "\\n")
        } else {
            lines = append(lines, fmt.Sprintf("//
%s\\n", line))
        }
    }
    lines = append(lines, "\\n")

    if err := scanner.Err(); err != nil {
        return "", err
    }
    return strings.Join(lines, ""), nil
}

```

1.205 bzip2 1.0.8-r6

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.206 x-sys 0.27.0

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1.207 logr 1.4.2

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1.208 procs 0.7.3

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

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1.209 google-apis 1.4.1

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1.210 sqlite 1.20.0

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1.211 protobuf-go 1.36.5

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1.212 spew 1.1.2-0.20180830191138-d8f796af33cc

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1.213 sdk-contrib-resourcetuner 0.0.0-20241127212647-158b8231aef6

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1.214 sqlite 1.34.1

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1.215 tally 4.1.3

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1.216 yamux 0.1.1

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lockfileVersion: 5.3

specifiers:

'@sveltejs/vite-plugin-svelte': ^1.0.0-next.30

'@tauri-apps/api': ^1.0.0-beta.8

'@tauri-apps/cli': ^1.0.0-beta.10

'@tsconfig/svelte': ^2.0.1

'@types/crypto-js': ^4.1.0

'@types/node': ^12.0.0

axios: ^0.24.0

crypto-js: ^4.1.1

svelte: ^3.44.0

svelte-check: ^2.2.7

svelte-preprocess: ^4.9.8

tslib: ^2.3.1

typescript: ^4.4.4

vite: ^2.7.2

dependencies:

'@tauri-apps/api': 1.0.0-beta.8

'@types/node': 12.20.42

axios: 0.24.0

crypto-js: 4.1.1

devDependencies:

'@sveltejs/vite-plugin-svelte': 1.0.0-next.36_svelte@3.46.3+vite@2.7.13

'@tauri-apps/cli': 1.0.0-beta.10

'@tsconfig/svelte': 2.0.1

'@types/crypto-js': 4.1.0

svelte: 3.46.3

svelte-check: 2.3.0_svelte@3.46.3

svelte-preprocess: 4.10.2_svelte@3.46.3+typescript@4.5.5

tslib: 2.3.1

typescript: 4.5.5

vite: 2.7.13

packages:

/@nodelib/fs.scandir/2.1.5:

resolution: {integrity: sha512-

vq24Bq3ym5HEQm2NKC7yXDwjc7vTsEThRDnkp2DK9p1uqLR+DHurm/NOTo0KG7HYHU7eppKZj3MyqYuMBf62g==}

engines: {node: '>= 8'}

dependencies:

'@nodelib/fs.stat': 2.0.5

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    run-parallel: 1.2.0
    dev: true

/@nodelib/fs.stat/2.0.5:
  resolution: {integrity: sha512-
RkhPPp2zrqDAQA/2jNhnztcPAlv64XdhIp7a7454A5ovI7Bukxgt7MX7udwAu3zg1DcpPU0rz3VV1SeaqvY4+A==
}
  engines: {node: '>= 8'}
  dev: true

/@nodelib/fs.walk/1.2.8:
  resolution: {integrity: sha512-
oGB+UxlgWcgKqgwo8GcEGwemoTFt3FIO9ababBmaGwXIoBKZ+GTy0pP185beGg7Llih/NSHSV2XAs1lnznoc
Sg==}
  engines: {node: '>= 8'}
  dependencies:
    '@nodelib/fs.scandir': 2.1.5
    fastq: 1.13.0
  dev: true

/@rollup/pluginutils/4.1.2:
  resolution: {integrity: sha512-
ROn4qvKxP9SyPeHaf7uQC/GPFY6L/OWy9+bd9AwcJOAWQwxRscoEyAUD8qCY5o5iL4jqQwoLk2kaTKJPb/H
wzQ==}
  engines: {node: '>= 8.0.0'}
  dependencies:
    estree-walker: 2.0.2
    picomatch: 2.3.1
  dev: true

/@sindresorhus/is/0.14.0:
  resolution: {integrity: sha512-
9NET910DNalPngYnLLPeg+Ogzqsi9uM4mSboU5y6p8S5DzMTVEsJZrawi+BoDNUVBa2DhJqQYUFvMDfgU0
62LQ==}
  engines: {node: '>=6'}
  dev: true

/@sindresorhus/is/0.7.0:
  resolution: {integrity: sha512-
ONhaKPIufzzrINbqtWFFd+jlnemX6lJAgq9ZeiZtS7I1PIf/la7CW4m83rTXRnVnsMbW2k56pGYu7AUFJD9Pow=
=}
  engines: {node: '>=4'}
  dev: true

/@sindresorhus/is/4.4.0:
  resolution: {integrity: sha512-
QppPM/8l3Mawvh4rn9CNEYIU9bXpXUCRMAx9yUpvBk1nMKusLKpfXGDEKExKaPhLzcn3lzl7pR6rnJ11Hge
RQ==}

```

```

engines: {node: '>=10'}
dev: true

/@sveltejs/vite-plugin-svelte/1.0.0-next.36_svelte@3.46.3+vite@2.7.13:
  resolution: {integrity: sha512-
X7lTiioTGC3ri5M299fxc2dimuKU7f22zTXcmD+Nrf+fO9/b7YNfLeQQwWV7Tvv9REysMIR4G2HqF6+IY62p/
Q==}
  engines: {node: ^14.13.1 || >= 16}
  peerDependencies:
    diff-match-patch: ^1.0.5
    svelte: ^3.44.0
    vite: ^2.7.0
  peerDependenciesMeta:
    diff-match-patch:
      optional: true
  dependencies:
    '@rollup/pluginutils': 4.1.2
    debug: 4.3.3
    kleur: 4.1.4
    magic-string: 0.25.7
    svelte: 3.46.3
    svelte-hmr: 0.14.9_svelte@3.46.3
    vite: 2.7.13
  transitivePeerDependencies:
    - supports-color
  dev: true

/@szmarczak/http-timer/1.1.2:
  resolution: {integrity: sha512-
XIB2XbzHTN6ieIjFIMV9hIVcfPU26s2vafYWQcZHWXHOXiaRZYEDKEwdl129Zyg50+foYV2jCgtrqSA6qNuNS
A==}
  engines: {node: '>=6'}
  dependencies:
    defer-to-connect: 1.1.3
  dev: true

/@szmarczak/http-timer/4.0.6:
  resolution: {integrity: sha512-
4BAffykYOgO+5nzBWYwE3W90sBgLJoUPRWWcL8wlyiM8IB8ipJz3UMJ9KXQd1RKQXpKp8Tutn80HZtWsu
2u76w==}
  engines: {node: '>=10'}
  dependencies:
    defer-to-connect: 2.0.1
  dev: true

/@tauri-apps/api/1.0.0-beta.8:
  resolution: {integrity: sha512-
a56lXB7XvQ4+fKtT0pxpkjTSKhyrQ1VmJyvt2ox3mT9xw3l7s8IOKHJ1WuqW6TA6xdoy3Cyja3Z3prw8hflS7g==

```

```

}
  engines: {node: '>= 12.13.0', npm: '>= 6.6.0', yarn: '>= 1.19.1'}
  dev: false

/@tauri-apps/cli/1.0.0-beta.10:
  resolution: {integrity: sha512-
T0cvV5Y5vCeEw6tQ7DfuGhXxe26AwW9i3oYT/AQZlwrLG9Xk02Pp0/lKqd/WeddE3X/IFfSm8YMRCz3VEII
WQ==}
  engines: {node: '>= 12.20.0', npm: '>= 6.6.0', yarn: '>= 1.19.1'}
  hasBin: true
  dependencies:
    '@tauri-apps/toml': 2.2.4
    chalk: 4.1.2
    cross-env: 7.0.3
    cross-spawn: 7.0.3
    fs-extra: 10.0.0
    global-agent: 3.0.0
    got: 11.8.2
    imagemin: 8.0.1
    imagemin-optipng: 8.0.0
    imagemin-zopfli: 7.0.0
    inquirer: 8.1.2
    is-png: 3.0.0
    minimist: 1.2.5
    ms: 2.1.3
    png2icons: 2.0.1
    read-chunk: 3.2.0
    semver: 7.3.5
    sharp: 0.28.3
    update-notifier: 5.1.0
  dev: true

/@tauri-apps/toml/2.2.4:
  resolution: {integrity: sha512-
NJV/pdgJObDIDWi5+MTHZ2qyNvdL0dlHqQ72nzQYXWbW1LHMPXgCJYl0pLqL1XxxLtxtInYbtVCGVAcwh
Gxdkw==}
  dev: true

/@tokenizer/token/0.3.0:
  resolution: {integrity: sha512-
OvjF+z51L3ov0OyAU0duzsYuvO01PH7x4t6DJx+guahgTnBHkhJdG7soQeTSFLWN3efnHyibZ4Z8l2EuWwJN3
A==}
  dev: true

/@tsconfig/svelte/2.0.1:
  resolution: {integrity: sha512-
aqqICXbM1oX5FfgZd2qSSAGdyo/NRxxjWCamxoyi3T8iVQnzGge19HhDYzZ6NrVOW7bhcWNSq9XexWFtMzb
B24A==}

```


dev: true

/@types/cacheable-request/6.0.2:

resolution: {integrity: sha512-

B3xVo+dlKM6nnKTcmm5ZtY/OL8bOAOd2Olee9M1zft65ox50OzjEHW91sDiU9j6cvW8Ejg1/Qkf4xd2kugApUA==}

dependencies:

'@types/http-cache-semantics': 4.0.1

'@types/keyv': 3.1.3

'@types/node': 12.20.42

'@types/responselike': 1.0.0

dev: true

/@types/crypto-js/4.1.0:

resolution: {integrity: sha512-

DCFfy/vh2lG6qHSGezQ+Sn2Ulf/1Mx51dqOdmOKyW5nMK3maLlxeS3onC7r212OnBM2pBR95HkAmAjjF08YkxQ==}

dev: true

/@types/http-cache-semantics/4.0.1:

resolution: {integrity: sha512-

SZs7ekbP8CN0txVG2xVRH6EgKmEm31BOxA07vkFaETzZz1xh+cbt8BcI0slpymvwhx5dlFnQG2rTlPVQn+iRPQ==}

dev: true

/@types/keyv/3.1.3:

resolution: {integrity: sha512-

FXCJggyN3ivVgRoml4h94G/p3kY+u/B86La+QptcqJaWtBWtmc6TtkNfS40n9bIvyLteHh7zXOtgbobORKPbDg==}

dependencies:

'@types/node': 12.20.42

dev: true

/@types/node/12.20.42:

resolution: {integrity: sha512-

aI3/oo5DzyiI5R/xAhxxRzfZlWlsbbqdgxfTPkqu/Zt+23GXijvMCyPJT4+xKSXOnLqoL8jJYMLTwvK2M3a5hw==}

/@types/pug/2.0.6:

resolution: {integrity: sha512-

SnHmG9wN1UVmagJOnyo/qkk0Z7gejYxOYYmaAwR5u2yFYfsupN3sg10kyzN8Hep/2zbHxCnsumxOoRIRMBwKCg==}

dev: true

/@types/responselike/1.0.0:

resolution: {integrity: sha512-

85Y2BjiufFzaMllvJDvTTB8Fx12xfLo4HgmHzVBz08w4wDePCTjYw66PdrolO0kzli3yam/YCgRufyo1DdQVTA=

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=}
dependencies:
  '@types/node': 12.20.42
dev: true

/@types/sass/1.43.1:
  resolution: {integrity: sha512-
BPdoIt1lfJ6B7rw35ncdwBZrAssjcwzI5LByIrYs+tpXlj/CAkuVdRsgZDdP4lq5EjyWzwxZCqAoFyHKFwp32g==}
  dependencies:
    '@types/node': 12.20.42
  dev: true

/ansi-align/3.0.1:
  resolution: {integrity: sha512-
IOfwBF5iczOjp/WeY4YxyjqAFMQoZufdQWDd19SEExbVLNXqvpzSJ/M7Za4/sCPmQ0+GRquoA7bGcINcxe
w6w==}
  dependencies:
    string-width: 4.2.3
  dev: true

/ansi-escapes/4.3.2:
  resolution: {integrity: sha512-
gKXj5ALrKWQLsYG9jlTRmR/xKluxHV+Z9QEwNIgCfM1/uwPMCuzVVnh5mwTd+OuBZcwSIMbqssNWRm1l
E51QaQ==}
  engines: {node: '>=8'}
  dependencies:
    type-fest: 0.21.3
  dev: true

/ansi-regex/2.1.1:
  resolution: {integrity: sha1-w7M6te42DYbg5ijwRorn7yfWVN8=}
  engines: {node: '>=0.10.0'}
  dev: true

/ansi-regex/5.0.1:
  resolution: {integrity: sha512-
quJQXlTSUGL2LH9SUXo8VwsY4soanhgo6LNSm84E1LBcE8s3O0wpdiRzyR9z/ZZJMIWv37qOOb9pdJlMUE
KFQ==}
  engines: {node: '>=8'}
  dev: true

/ansi-styles/2.2.1:
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  engines: {node: '>=0.10.0'}
  dev: true

/ansi-styles/4.3.0:
  resolution: {integrity: sha512-

```

```

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==}
  engines: {node: '>=8'}
  dependencies:
    color-convert: 2.0.1
  dev: true

/anymatch/3.1.2:
  resolution: {integrity: sha512-P43ePfOAIupkguHUycrc4qJ9kz8ZiuOUijaETwX7THt0Y/GNK7v0aa8rY816xWjZ7rJdA5XdMcpVFTKMq+RvW
g==}
  engines: {node: '>= 8'}
  dependencies:
    normalize-path: 3.0.0
    picomatch: 2.3.1
  dev: true

/aproba/1.2.0:
  resolution: {integrity: sha512-
Y9J6ZjXtoYh8RnXVCMOU/ttDmk1aBjunq9vO0ta5x85WDQiQfUF9sIPBITdbiiIVcBo03Hi3jMxigBtsddlXRw==
}
  dev: true

/arch/2.2.0:
  resolution: {integrity: sha512-
Of/R0wqp83cgHozfIYLbBMnej79U/SVG0OyuB3VVFv1NRM/PSFMK12x9KVtiYzJqmnU5WR2qp0Z5rHb7sW
GnFQ==}
  dev: true

/archive-type/4.0.0:
  resolution: {integrity: sha1-+S5yIzBW38aWIHJ0nCZ72wRrHXA=}
  engines: {node: '>=4'}
  dependencies:
    file-type: 4.4.0
  dev: true

/are-we-there-yet/1.1.7:
  resolution: {integrity: sha512-
nxwy40TuMiUGqMyRHgCSWZ9FM4VAoRP4xUYSTv5ImRog+h9yISpbVH7H8fASCIzYn9wlEv4zvFL7uKDM
CFQm3g==}
  dependencies:
    delegates: 1.0.0
    readable-stream: 2.3.7
  dev: true

/array-find-index/1.0.2:
  resolution: {integrity: sha1-3wEKOSh+Fku9pvlyOwqWoexBh6E=}
  engines: {node: '>=0.10.0'}

```

```

dev: true

/array-union/3.0.1:
  resolution: {integrity: sha512-1OvF9IbWwaeiM9VhzYXVQacMibxpXOMYVNIvMtKRyX9SImBXpKcFr8XvFDeEslCyH/t6KRt7HEO94AlP8Iatw==}
  engines: {node: '>=12'}
  dev: true

/axios/0.24.0:
  resolution: {integrity: sha512-Q6cWsys88HoPgAaFAVUb0WpPk008iTeisR9IMqy9G8AbO4NlpVknrnQS03zzF9PGAWgO3cgletO3VjV/P7VztA==}
  dependencies:
    follow-redirects: 1.14.7
  transitivePeerDependencies:
    - debug
  dev: false

/balanced-match/1.0.2:
  resolution: {integrity: sha512-3oSeUO0TMV67hN1AmbXsK4yaqU7tjiHlbrRDZOpH0KW9+CeX4bRAaX0Anxt0tx2MrpRpWwQaPwIlISEJhYU5Pw==}
  dev: true

/base64-js/1.5.1:
  resolution: {integrity: sha512-AKpaYlHn8t4SVbOHCy+b5+KKgvR4vrsD8vbvrbiQJps7fKDTkjkDry6ji0rUJjC0kzbNePLwzxq8iypo41qeWA==}
  dev: true

/bin-build/3.0.0:
  resolution: {integrity: sha512-jcUOof71/TNAI2uM5uoUaDq2ePcVBQ3R/qhxAz1rX7UfvduAL/RXD3jXzvn8cVcDjdGVkiR1shal3OH0ImpuhA==}
  engines: {node: '>=4'}
  dependencies:
    decompress: 4.2.1

download: 6.2.5
  execa: 0.7.0
  p-map-series: 1.0.0
  tempfile: 2.0.0
  dev: true

/bin-check/4.1.0:
  resolution: {integrity: sha512-b6weQyEUKsDGFACWSIOfveEnImkJyK/FGW6FAG42loyoquvjdIOIqO6yBFzHyqyVVhNgNkQxxx09SFLK28

```

```

YnA==}
  engines: {node: '>=4'}
  dependencies:
    execa: 0.7.0
    executable: 4.1.1
  dev: true

/bin-version-check/4.0.0:
  resolution: {integrity: sha512-
sR631OrhC+1f8Cvs8WyVWOA33Y8tgwjETNPyyD/myRBXLkfS/vl74FmH/lFcRl9KY3zwGh7jFhvyk9vV3/3ilQ=
=}
  engines: {node: '>=6'}
  dependencies:
    bin-version: 3.1.0
    semver: 5.7.1
    semver-truncate: 1.1.2
  dev: true

/bin-version/3.1.0:
  resolution: {integrity: sha512-
Mkfm4iE1VFt4xd4vH+gx+0/71esbfus2LsnCGe8Pi4mndSPyT+NGES/Eg99jx8/lUGWfu3z2yuB/bt5UB+iVbQ==}
  engines: {node: '>=6'}
  dependencies:
    execa: 1.0.0
    find-versions: 3.2.0
  dev: true

/bin-wrapper/4.1.0:
  resolution: {integrity: sha512-
hfRmo7hWIXPkbpi0ZltboCMVrU+0ClXR/JgbCKKjldJQf6igXa7OwdqNcFWQZPZTgiY7ZpzE3+LjjkLiTN2T7Q
==}
  engines: {node: '>=6'}
  dependencies:
    bin-check: 4.1.0
    bin-version-check: 4.0.0
    download: 7.1.0
    import-lazy: 3.1.0
    os-filter-obj: 2.0.0
    pify: 4.0.1
  dev: true

/binary-extensions/2.2.0:
  resolution: {integrity: sha512-
jDctJ/IVQbZoJykoeHbhXpOlNBqGNcwXJKJog42E5HDPuWQTSdjCHdihj0DlnheQ7blbT6dHOafNAiS8ooQKA
==}
  engines: {node: '>=8'}
  dev: true

```

```

/bl/1.2.3:
  resolution: {integrity: sha512-
pvcNpa0UU69UT341rO6AYy4FVAIkUHuZXRIWbq+zHnsVcRzDDjIAhGuuYoi0d//cwIwtt4pkpKycWEfjdV+vw
w==}
  dependencies:
    readable-stream: 2.3.7
    safe-buffer: 5.2.1
  dev: true

/bl/4.1.0:
  resolution: {integrity: sha512-
1W07cM9gS6DcLperZfFSj+bWLtaPGSOHWhPiGzXmvVJbRLdG82sH/Kn8EtW1VqWVA54AKf2h5k5BbnIbwF
3h6w==}
  dependencies:
    buffer: 5.7.1
    inherits: 2.0.4
    readable-stream: 3.6.0
  dev: true

/boolean/3.1.4:
  resolution: {integrity: sha512-
3hx0kwU3uzG6ReQ3pnaFQPSktpBw6RHN3/ivDKEuU8g1XSsafowyvDnadjv1xp8IZqhtSukxIwv9bF6FhX8m0w=
=}
  dev: true

/boxen/5.1.2:
  resolution: {integrity: sha512-
9gYgQKXx+1nP8mP7CzFyaUARhg7D3n1dF/FnErWmu9l6JvGpNUN278h0aSb+QjoiKSWG+iZ3uHrcqk0qrY9R
QQ==}
  engines: {node: '>=10'}
  dependencies:
    ansi-align: 3.0.1
    camelcase: 6.3.0
    chalk: 4.1.2
    cli-boxes: 2.2.1
    string-width: 4.2.3
    type-fest: 0.20.2
    widest-line: 3.1.0
    wrap-ansi: 7.0.0
  dev: true

/brace-expansion/1.1.11:
  resolution: {integrity: sha512-
iCuPHDFgrHX7H2vEI/5xpz07zSHB00TpugqhmYtVmMO6518mCuRMoOYFldEBI0g187ufozdaHgWKcYFb61q
GiA==}
  dependencies:
    balanced-match: 1.0.2
    concat-map: 0.0.1

```

dev: true

/braces/3.0.2:

resolution: {integrity: sha512-b8um+L1RzM3WDSzvhm6gIz1yfTbBt6YTlcEKAvsmqCZZFw46z626lVj9j1yEPW33H5H+IBQpZMP1k8l+78Ha0A==}
engines: {node: '>=8'}
dependencies:
 fill-range: 7.0.1
dev: true

/buffer-alloc-unsafe/1.1.0:

resolution: {integrity: sha512-TEM2iMIEQdJ2yjPJoSIsldnleVaAk1oW3DBVUykyOLsEsFmEc9kn+SFFPz+gl54KQNxlDnAwCXosOS9Okx2xA
g==}
dev: true

/buffer-alloc/1.2.0:

resolution: {integrity: sha512-CFsHQgtW1UChdXgbyJGtnm+O/uLQeZdtbDo8mfUgYXCHSM1wgrVxXm6bSyrUuErEb+4sYVGCzASBRot7z
yrow==}
dependencies:
 buffer-alloc-unsafe: 1.1.0
 buffer-fill: 1.0.0
dev: true

/buffer-crc32/0.2.13:

resolution: {integrity: sha1-DTM+PwDqxQqhRUq9MO+MKl2ackI=}
dev: true

/buffer-fill/1.0.0:

resolution: {integrity: sha1-+PeLdniYiO858gXNY39o5wISKyw=}
dev: true

/buffer/5.7.1:

resolution: {integrity: sha512-EHcyIPBQ4BSGlvjB16k5KgAJ27CIsHY/2JBmCRReo48y9rQ3MaUzWX3KVlBa4U7MyX02HdVj0K7C3WaB3ju
7FQ==}
dependencies:
 base64-js: 1.5.1
 ieee754: 1.2.1
dev: true

/cacheable-lookup/5.0.4:

resolution: {integrity: sha512-2/kNscPhpcxrOigMZzbiWF7dz8ilhb/nIHU3EyZiXWXpeq/au8qJ8VhdfMkty3n7Gj6HIGalQG8oiBNB3AJgA==}
engines: {node: '>=10.6.0'}
dev: true

/cacheable-request/2.1.4:

resolution: {integrity: sha1-DYCIAbY0KtM8kd+dC0TcCbkeXD0=}

dependencies:

clone-response: 1.0.2

get-stream: 3.0.0

http-cache-semantics: 3.8.1

keyv: 3.0.0

lowercase-keys: 1.0.0

normalize-url: 2.0.1

responselike: 1.0.2

dev: true

/cacheable-request/6.1.0:

resolution: {integrity: sha512-

Oj3cAGPCqOZX7Rz64Uny2GYAZNliQSqfbePrgAQ1wKAihYmCUnraBtJtKcGR4xz7wF+LoJC+ssFZvv5BgF9Ilg==}

engines: {node: '>=8'}

dependencies:

clone-response: 1.0.2

get-stream: 5.2.0

http-cache-semantics: 4.1.0

keyv: 3.1.0

lowercase-keys: 2.0.0

normalize-url: 4.5.1

responselike: 1.0.2

dev: true

/cacheable-request/7.0.2:

resolution: {integrity: sha512-

pouW8/FmiPQbuGpkXQ9BAPv/Mo5xDGANGSNXzTzJ8DrKGuXOssM4wIQRjfanNRh3Yu5cfYPvcorqbhg2KIJtew==}

engines: {node: '>=8'}

dependencies:

clone-response: 1.0.2

get-stream: 5.2.0

http-cache-semantics: 4.1.0

keyv: 4.0.5

lowercase-keys: 2.0.0

normalize-url: 6.1.0

responselike: 2.0.0

dev: true

/callsites/3.1.0:

resolution: {integrity: sha512-

P8BjAsXvZS+VIDUI11hHCQEv74YT67YUi5JJFNWIqL235sBmjX4+qx9Muvls5ivyNENctx46xQLQ3aTuE7ssaQ==}

engines: {node: '>=6'}

dev: true

/camelcase-keys/2.1.0:

resolution: {integrity: sha1-MIvur/3ygRkFHvodkyITyRuPkuc=}

engines: {node: '>=0.10.0'}

dependencies:

camelcase: 2.1.1

map-obj: 1.0.1

dev: true

/camelcase/2.1.1:

resolution: {integrity: sha1-fB0W1nmhu+WcoCys7PsBHiAfWh8=}

engines: {node: '>=0.10.0'}

dev: true

/camelcase/6.3.0:

resolution: {integrity: sha512-

Gmy6FhYlCY7uOEIzUSbxo2UCDH8owEk996gkbrpsgGtrJLM3J7jGxl9Ic7Qwwj4ivOE5AWZWRMecDdF7hqGjFA==}

engines: {node: '>=10'}

dev: true

/caw/2.0.1:

resolution: {integrity: sha512-

Cg8/ZSBEa8ZVY9HspcGUYaK63d/bN7rqS3CYCzEGUxuYv6UlmcyjDUz2fCFFHyTvUW5Pk0I+3hkA3iXlIj6guA==}

engines: {node: '>=4'}

dependencies:

get-proxy: 2.1.0

isurl: 1.0.0

tunnel-agent: 0.6.0

url-to-options: 1.0.1

dev: true

/chalk/1.1.3:

resolution: {integrity: sha1-qBFcVeSnAv5NFQq9OHKCKn4J/Jg=}

engines: {node: '>=0.10.0'}

dependencies:

ansi-styles: 2.2.1

escape-string-regexp: 1.0.5

has-ansi: 2.0.0

strip-ansi: 3.0.1

supports-color: 2.0.0

dev: true

/chalk/4.1.2:

resolution: {integrity: sha512-

oKnbfYRIXpUuez8iBMMyEa4nbj4IOQyuhc/wy9kY7/WVPcwIO9VA668Pu8RkO7+0G76SLROeyw9CpQ061i4

```

mA==}
  engines: {node: '>=10'}
  dependencies:
    ansi-styles: 4.3.0
    supports-color: 7.2.0
  dev: true

/chardet/0.7.0:
  resolution: {integrity: sha512-
mT8iDcrh03qDGRRmoA2hmBJnxpllMR+0/0qlzjqZES6NdiWDcZkCNAk4rPFZ9Q85r27unkiNNg8ZOiwZXBHw
cA==}
  dev: true

/chokidar/3.5.3:
  resolution: {integrity: sha512-
Dr3sfKRP6oTcjf2JmUmFJfeVMvXBdegxB0iVQ5eb2V10uFJUCAS8OByZdVAyVb8xXNz3GjjTgj9kLWsZTqE6
kw==}
  engines: {node: '>= 8.10.0'}
  dependencies:
    anymatch: 3.1.2
    braces: 3.0.2
    glob-parent: 5.1.2

is-binary-path: 2.1.0
  is-glob: 4.0.3
  normalize-path: 3.0.0
  readdirp: 3.6.0
  optionalDependencies:
    fsevents: 2.3.2
  dev: true

/chownr/1.1.4:
  resolution: {integrity: sha512-
jJ0bqzaylmJtVnNgzTeSOs8DPavpbYgEr/b0YL8/2GO3xJEhInFmhKMUnEJQjZumK7KXGFhUy89PrsJWlakBVg
==}
  dev: true

/ci-info/2.0.0:
  resolution: {integrity: sha512-
5tK7EtrZ0N+OLFMthtqOj4fI2Jeb88C4CAZPu25LDVUgXJ0A3Js4PMGqrm0JU1W0Mh1/Z8wZzYPxqUrXeBboC
Q==}
  dev: true

/cli-boxes/2.2.1:
  resolution: {integrity: sha512-
y4coMcyIlgSCdVinjiDBuR8PCC2bLjyGTwEmPb9NHR/QaNU6EUOXcTY/s6VjGMD6ENSEaeQYHcY0GNGS5j
fMwPw==}
  engines: {node: '>=6'}

```

dev: true

/cli-cursor/3.1.0:

resolution: {integrity: sha512-

I/zHAWsKf9FqGoXM4WWRACob9+SNUkZTd94DWF57E4toouRulbCxcUh6RKUEOQIYTHJnzKPMYsVpNaaSLNfLZw==}

engines: {node: '>=8'}

dependencies:

restore-cursor: 3.1.0

dev: true

/cli-spinners/2.6.1:

resolution: {integrity: sha512-

x/5fWmGMnbKQAaNwN+UZlV79qBLM9JFnJuJ03gli5whrob0xV0ofNVHy9DhwGdsMJQc2OKv0oGmLzvaqvAVv+g==}

engines: {node: '>=6'}

dev: true

/cli-width/3.0.0:

resolution: {integrity: sha512-

FxqpkPPwu1HjuN93Omfm4h8uIanXofW0RxVEW3k5RKx+mJJYSthzNhp32Kzxy3YAEZ/Dc/EWN1vZRY0+kO hbw==}

engines: {node: '>= 10'}

dev: true

/clone-response/1.0.2:

resolution: {integrity: sha1-0dyXOSAxtfZ/vrICI7TuNQI56Ws=}

dependencies:

mimic-response: 1.0.1

dev: true

/clone/1.0.4:

resolution: {integrity: sha1-2jCcwmPfFZlMaIypAheco8fNfH4=}

engines: {node: '>=0.8'}

dev: true

/code-point-at/1.1.0:

resolution: {integrity: sha1-DQcLTQQ6W+ozovGkDi7bPZpMz3c=}

engines: {node: '>=0.10.0'}

dev: true

/color-convert/1.9.3:

resolution: {integrity: sha512-

QfAUtd+vFdAtFQcC8CCyYt1fYWxSqAiK2cSD6zDB8N3cpsEBAvRxp9zOGg6G/SHHJYAT88/az/IuDGALsNVbGg==}

dependencies:

color-name: 1.1.3

dev: true

```

/color-convert/2.0.1:
  resolution: {integrity: sha512-
RRECPsj7iu/xb5oKYcsFHSppFNnsj/52OVTRKb4zP5onXwVF3zVmmToNcOfGC+CRDpfK/U584fMg38ZHCaEl
KQ==}
  engines: {node: '>=7.0.0'}
  dependencies:
    color-name: 1.1.4
  dev: true

/color-name/1.1.3:
  resolution: {integrity: sha1-p9BVi9icQveV3UIy3QIMcpTvCU=}
  dev: true

/color-name/1.1.4:
  resolution: {integrity: sha512-
dOy+3AuW3a2wNbZHIuMZpTcgjGuLU/uBL/ubcZF9OXbDo8ff4O8yVp5Bf0efS8uEoYo5q4Fx7dY9OgQGxgAs
QA==}
  dev: true

/color-string/1.9.0:
  resolution: {integrity: sha512-
9Mrz2AQLefkH1UvASKj6v6hj/7eWgjnT/cVsR8CumieLoT+g900exWeNogqtweI8dxloXN9BDQTYro1oWu/5CQ
==}
  dependencies:
    color-name: 1.1.4
    simple-swizzle: 0.2.2
  dev: true

/color/3.2.1:
  resolution: {integrity: sha512-
aBl7dZI9ENN6fUGC7mWpMTPNHmWUSNan9tuWN6ahh5ZLNk9baLJOnSmlrQkHcrfFgz2/RigjUVAjdx36Vce
mKA==}
  dependencies:
    color-convert: 1.9.3
    color-string: 1.9.0
  dev: true

/commander/2.20.3:
  resolution: {integrity: sha512-
GpVkmM8vF2vQUkj2LvZmD35JxeJOLCwJ9cUkugyk2nuhvv3+mJvpLYYt+0+USMxE+oj+ey/lJEnhZw75x/OMc
Q==}
  dev: true

/concat-map/0.0.1:
  resolution: {integrity: sha1-2Klr13/Wjfd5OnMDajug1UBdR3s=}
  dev: true

```

```

/config-chain/1.1.13:
  resolution: {integrity: sha512-
qj+f8APARXHRM0hraQXYb2/bOVSV4PvJQlNZ/DVj0QrmNM2q2euizkeuVckQ57J+W0mRH6Hvi+k50M4Jul2V
RQ==}
  dependencies:
    ini: 1.3.8
    proto-list: 1.2.4
  dev: true

/configstore/5.0.1:
  resolution: {integrity: sha512-
aMKprgk5YhBNyH25hj8wGt2+D52Sw1DRRIzqBwLp2Ya9mFmY8KPvvtvmna8SxVR9JmZ4kzMD68N22vlaRp
keFA==}
  engines: {node: '>=8'}
  dependencies:
    dot-prop: 5.3.0
    graceful-fs: 4.2.9
    make-dir: 3.1.0
    unique-string: 2.0.0
    write-file-atomic: 3.0.3
    xdg-basedir: 4.0.0
  dev: true

/console-control-strings/1.1.0:
  resolution: {integrity: sha1-PXz0Rk22RG6mRL9LOVB/mFEAjo4=}
  dev: true

/console-stream/0.1.1:
  resolution: {integrity: sha1-oJX+B7IEZZVfL6/Si11yvM2UnUQ=}
  dev: true

/content-disposition/0.5.4:
  resolution: {integrity: sha512-
FveZTNuGw04cx1AiWbzi6zTAL/lhehaWbTtgluJh4/E95DqMwTmha3KZN1aAWA8cFIhHzMZUvLevkw5Rqk+tS
Q==}
  engines: {node: '>= 0.6'}
  dependencies:
    safe-buffer: 5.2.1
  dev: true

/core-util-is/1.0.3:
  resolution: {integrity: sha512-
ZQBvi1DcpJ4GDqanjucZ2Hj3wEO5pZDS89BWbkcrvdxksJorwUDDZamX9ldFkp9aw2lmBDLgkObEA4DWNJ9
FYQ==}
  dev: true

/cross-env/7.0.3:
  resolution: {integrity: sha512-

```

```

+/HKd6EgcQCJGh2PSjZuUitQBQynKor4wrFbRg4DtAgS1aWO+gU52xpH7M9ScGgXSYmAVS9bIJ8EzuaGw0o
NAw==}
  engines: {node: '>=10.14', npm: '>=6', yarn: '>=1'}
  hasBin: true
  dependencies:
    cross-spawn: 7.0.3
  dev: true

/cross-spawn/5.1.0:
  resolution: {integrity: sha1-6L0O/uWPz/b4+UUQoKVUu/ojVEk=}
  dependencies:
    lru-cache: 4.1.5
    shebang-command: 1.2.0
    which: 1.3.1
  dev: true

/cross-spawn/6.0.5:
  resolution: {integrity: sha512-eTVLrBst7fjbDygz805pMnstls2VTBNkRm0qxZd+M7A5XDdxVRWO5MxGBXZhjY4cqLYLdtrGqRf8mBPmzw
SpWQ==}
  engines: {node: '>=4.8'}
  dependencies:
    nice-try: 1.0.5
    path-key:
      2.0.1
    semver: 5.7.1
    shebang-command: 1.2.0
    which: 1.3.1
  dev: true

/cross-spawn/7.0.3:
  resolution: {integrity: sha512-iRDPJKUPVEND7dHPO8rkbOnPpyDygcDFtWjpeWNCgy8WP2rXcxXL8TskReQl6OrB2G7+UJrags1q15Fudc7G
6w==}
  engines: {node: '>= 8'}
  dependencies:
    path-key: 3.1.1
    shebang-command: 2.0.0
    which: 2.0.2
  dev: true

/crypto-js/4.1.1:
  resolution: {integrity: sha512-o2JlM7yqdq3Qk9CA0L4NL6mTzU2sdx96a+oOfPu8Mkl/PK51vSyoi8/rQ8NknZtk44vq15lmhAj9CIAgWgeWKw=
=}
  dev: false

/crypto-random-string/2.0.0:

```

```
  resolution: {integrity: sha512-
v1pIID3y9r/lPhviJ1wrXpLeyUIGAZ2SHNYTEapm7/8A9nLPoyvVp3RK/EPFqn5kEznyWgYZNsRtYYIWbuG8K
A==}
  engines: {node: '>=8'}
  dev: true
```

```
/currently-unhandled/0.4.1:
  resolution: {integrity: sha1-mI3zP+qxke95mmE2nddsF635V+o=}
  engines: {node: '>=0.10.0'}
  dependencies:
    array-find-index: 1.0.2
  dev: true
```

```
/debug/4.3.3:
  resolution: {integrity: sha512-
/zxw5+vh1Tfv+4Qn7a5nsbcJKPaSvCDhojn6FEI9vupwK2VCSDtEiEtqr8DFtzYFOdz63LBkxec7DYuc2jon6Q==}
  engines: {node: '>=6.0'}
  peerDependencies:
    supports-color: '*'
  peerDependenciesMeta:
    supports-color:
      optional: true
  dependencies:
    ms: 2.1.2
  dev: true
```

```
/decamelize/1.2.0:
  resolution: {integrity: sha1-9lNNFRSCabIDUue+4m9QH5oZEpA=}
  engines: {node: '>=0.10.0'}
  dev: true
```

```
/decode-uri-component/0.2.0:
  resolution: {integrity: sha1-6zkTMzRYd1y4TNGh+uBiEGu4dUU=}
  engines: {node: '>=0.10'}
  dev: true
```

```
/decompress-response/3.3.0:
  resolution: {integrity: sha1-gKTDmjdIOEv6JICDYirt7Jgq3/M=}
  engines: {node: '>=4'}
  dependencies:
    mimic-response: 1.0.1
  dev: true
```

```
/decompress-response/4.2.1:
  resolution: {integrity: sha512-
jOSne2qbyE+/r8G1VU+G/82LBs2Fs4LAsTiLSHOCOMZQl2OKZ6i8i4IyHemTe+/yIXOtTcRQMzPcgyhoFlqPkw
==}
  engines: {node: '>=8'}
```

dependencies:

mimic-response: 2.1.0

dev: true

/decompress-response/6.0.0:

resolution: {integrity:

sha512-

aW35yZM6Bb/4oJlZncMH2LCoZtJXTRxES17vE3hoRiowU2kWHaJKFkSBDnDR+cm9J+9QhXmREyIfv0pji9ejCQ==}

engines: {node: '>=10'}

dependencies:

mimic-response: 3.1.0

dev: true

/decompress-tar/4.1.1:

resolution: {integrity: sha512-

JdJMaCrGpB5fESVyxwpCx4Jdj2AagLmv3y58Qy4GE6HmVjWz1FeVQk1Ct4Kye7PftcdOo/7U7UKzYBJgqnGeUQ==}

engines: {node: '>=4'}

dependencies:

file-type: 5.2.0

is-stream: 1.1.0

tar-stream: 1.6.2

dev: true

/decompress-tarbz2/4.1.1:

resolution: {integrity: sha512-

s88xLzf1r81ICXLAVQVzaN6ZmX4A6U4z2nMbOwobxkLoIfjVMBg7TeguTUXkKeXni795B6y5rnvDw7rxhAq9A==}

engines: {node: '>=4'}

dependencies:

decompress-tar: 4.1.1

file-type: 6.2.0

is-stream: 1.1.0

seek-bzip: 1.0.6

unbzip2-stream: 1.4.3

dev: true

/decompress-targz/4.1.1:

resolution: {integrity: sha512-

4z81Znfr6chWnRDNfFNqLwPvm4db3WuZkqV+UgXQzSngG3CEKdBkw5jrv3axjjL96glyiiKjsxJG3X6WBZwX3w==}

engines: {node: '>=4'}

dependencies:

decompress-tar: 4.1.1

file-type: 5.2.0

is-stream: 1.1.0

dev: true


```

/decompress-unzip/4.0.1:
  resolution: {integrity: sha1-3qrM39FK6vhVePczroIQ+bSEj2k=}
  engines: {node: '>=4'}
  dependencies:
    file-type: 3.9.0
    get-stream: 2.3.1
    pify: 2.3.0
    yauzl: 2.10.0
  dev: true

/decompress/4.2.1:
  resolution: {integrity: sha512-e48kc2IjU+2Zw8cTb6VZcJQ3lgVbS4uuB1TfCHbiZIP/haNXm+SVyhu+87jts5/3ROpd82GSVCoNs/z8l4ZOaQ==}
  engines: {node: '>=4'}
  dependencies:
    decompress-tar: 4.1.1
    decompress-tarbz2: 4.1.1
    decompress-targz: 4.1.1
    decompress-unzip: 4.0.1
    graceful-fs: 4.2.9
    make-dir: 1.3.0
    pify: 2.3.0
    strip-dirs: 2.1.0
  dev: true

/deep-extend/0.6.0:
  resolution: {integrity: sha512-LOHxIOaPYdHlJRtCQfDIVZtfw/ufM8+rVj649RIHzcm/vGwQRXFt6OPqIFWsm2XEMrNIEtWR64sY1LEKD2vAOA==}
  engines: {node: '>=4.0.0'}
  dev: true

/defaults/1.0.3:
  resolution: {integrity: sha1-xlYFHpgX2f8I7YgUd/P+QBnz730=}
  dependencies:
    clone: 1.0.4
  dev: true

/defer-to-connect/1.1.3:
  resolution: {integrity: sha512-0ISdNousHvZT2EiFlZeZAHBUvSxmKswVCEf8hW7KWgG4a8MVEu/3Vb6uWYozklyCxe0JBliRB1jV45S70WVQ==}
  dev: true

/defer-to-connect/2.0.1:
  resolution: {integrity: sha512-4ttvtepgXG1VaYGrRibk5EwJd1t4udunSOVMdLSAL6mId1ix438oPwPZMALY41FCijukO1L0twNcGsdzS7dHgDg

```

```

==}
  engines: {node: '>=10'}
  dev: true

/define-properties/1.1.3:
  resolution: {integrity: sha512-
3MqfYKj2lLzdMSf8ZIZE/V+Zuy+BgD6f164e8K2w7dgnpKArBDeRGYpM46IYYcjnkdpNMjPk9A6VFB8+3SKl
XQ==}
  engines: {node: '>= 0.4'}
  dependencies:
    object-keys: 1.1.1
  dev: true

/delegates/1.0.0:
  resolution: {integrity: sha1-hMbhWbgZBP3KwADvRM2HDTElD5o=}
  dev: true

/detect-indent/6.1.0:
  resolution: {integrity: sha512-
reYkTUJAZb9gUuZ2RvVCNhVHdg62RHnJ7WJl8ftMi4diZ6NWlciOzQN88pUhSELEwflJht4oQDv0F0BmlwaYt
A==}
  engines: {node: '>=8'}
  dev: true

/detect-libc/1.0.3:
  resolution:
{integrity: sha1-+hN8S9aY7fVc1c0CrFWfkaTEups=}
  engines: {node: '>=0.10'}
  hasBin: true
  dev: true

/detect-node/2.1.0:
  resolution: {integrity: sha512-
T0NIuQpnTvFDATNuHN5roPwSBG83rFsuO+MXXH9/3N1eFbn4wcPjttvjMLEPWJ0RGUYgQE7cGgS3tNxbqC
GM7g==}
  dev: true

/dir-glob/3.0.1:
  resolution: {integrity: sha512-
WkrWp9GR4KXfKGYzOLmTuGVi1UWFfws377n9cc55/tb6DuqyF6pcQ5AbiHEshaDpY9v6oaSr2XCDidGmMw
dzIA==}
  engines: {node: '>=8'}
  dependencies:
    path-type: 4.0.0
  dev: true

/dot-prop/5.3.0:
  resolution: {integrity: sha512-

```

QM8q3zDe58hqUqjraQOmzZ1LIH9SWQJTIEKCH4kJ2oQvLZk7RbQXvtDM2XEq3fwkV9CCvvH4LA0AV+ogF
sBM2Q==}

engines: {node: '>=8'}

dependencies:

is-obj: 2.0.0

dev: true

/download/6.2.5:

resolution: {integrity: sha512-

DpO9K1sXAST8Cpzb7kmEhogJxymyVUd5qz/vCOSyvwt2Klj2XcDt5YUuasgxka44SxF0q5RriKIwJmQHG2Au
A==}

engines: {node: '>=4'}

dependencies:

caw: 2.0.1

content-disposition: 0.5.4

decompress: 4.2.1

ext-name:

5.0.0

file-type: 5.2.0

filenamify: 2.1.0

get-stream: 3.0.0

got: 7.1.0

make-dir: 1.3.0

p-event: 1.3.0

pify: 3.0.0

dev: true

/download/7.1.0:

resolution: {integrity: sha512-

xqnBTvd/E+GxJVrX5/eUJiLYjCGPwMpdL+jGhGU57BvtcA7wwhtHVbXBeUk51kOpW3S7Jn3BQbN9Q1R1Km
2qDQ==}

engines: {node: '>=6'}

dependencies:

archive-type: 4.0.0

caw: 2.0.1

content-disposition: 0.5.4

decompress: 4.2.1

ext-name: 5.0.0

file-type: 8.1.0

filenamify: 2.1.0

get-stream: 3.0.0

got: 8.3.2

make-dir: 1.3.0

p-event: 2.3.1

pify: 3.0.0

dev: true

/duplexer3/0.1.4:

```

resolution: {integrity: sha1-7gHdHKwO08vH/b6jfcCo8c4ALOI=}
dev: true

/emoji-regex/8.0.0:
  resolution: {integrity: sha512-MSjYzcWNOA0ewAHpz0MxpYFvwg6yjy1NG3xteoqz644VCo/RPgnr1/GGt+ic3iJTzQ8Eu3TdM14SawnVUmGE6A==}
  dev: true

/end-of-stream/1.4.4:
  resolution: {integrity: sha512+uw1inIHVPQoaVuHzRyXd21icM+cnt4CzD5rW+NC1wjOUSTOs+Te7FOv7AhN7vS9x/oIyhLP5PR1H+phQAHu5Q==}
  dependencies:
    once: 1.4.0
  dev: true

/error-ex/1.3.2:
  resolution: {integrity: sha512-7dFHNmqeFSEt2ZBsCriorKnn3Z2pj+fd9kmI6QoWw4//DL+icEBfc0U7qJCisqrTsKTjw4fNFy2pW9OqStD84g==}
  dependencies:
    is-arrayish: 0.2.1
  dev: true

/es6-error/4.1.1:
  resolution: {integrity: sha512-Um/+FxmMr9CISWh0bi5Zv0iOD+4cFh5qLeks1qhAopKVAJw3drgKbKySikp7wGhDL0HPeaja0P5ULZrxLkniUVg==}
  dev: true

/es6-promise/3.3.1:
  resolution: {integrity: sha1-oIzd6EzNvzTQJ6FFG8kdS80ophM=}
  dev: true

/esbuild-android-arm64/0.13.15:
  resolution: {integrity: sha512-m602nft/XXeO8YQPUDVoHfjyRVPdPgjyXOXZ44MK/agewFFkPa8tUo6lAzSWH5Ui5PB4KR9UIFTSBKh/RrCmg==}
  cpu: [arm64]
  os: [android]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-darwin-64/0.13.15:
  resolution: {integrity: sha512-ihOQRGs2yyp7t5bArCwnvn2Atr6X4axqPpEdCFVPv7iUj4cVSdisgvEKdNR7yH3JDjW6aQDw40iQFoTqejqxvQ=}

```

cpu: [x64]
os: [darwin]
requiresBuild: true
dev: true
optional: true

/esbuild-darwin-arm64/0.13.15:

resolution: {integrity: sha512-
i1fZssTVxUqNlJ6cBTj5YQj4imWy3m49RZRnHhLpefFIh0To05ow9DTrXROTE1urGTQCloFUXTX8QfGJy1P8
dQ==}
cpu: [arm64]
os: [darwin]
requiresBuild: true
dev: true
optional: true

/esbuild-freebsd-64/0.13.15:

resolution: {integrity: sha512-
G3dLBXUI6lC6Z09/x+WtXBxbOYQZ0E8TDBqvn7aMaOCzryJs8LyVXKY4CPnHFXZAbSwkCbqiPuSQ1+Hhr
Nk7EA==}
cpu: [x64]
os: [freebsd]
requiresBuild: true
dev: true
optional: true

/esbuild-freebsd-arm64/0.13.15:

resolution: {integrity: sha512-
KJx0fzEDf1uhNOZQStV4ujg30WlnwqUASaGSFPhznLM/bbheu9HhqZ6mJJZM32lkyfGJikw0jg7v3S0oAvtvQQ=
=
=
cpu: [arm64]
os: [freebsd]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-32/0.13.15:

resolution: {integrity: sha512-
ZvTBPk0YWCLMCXiFmD5EUtB30zIPvC5Itxz0mdTu/xZBbbHJftQgLWY49wEPSn2T/TxahYCRDWun5smRa0
Tu+g==}
cpu: [ia32]
os: [linux]
requiresBuild: true
dev: true
optional: true

/esbuild-linux-64/0.13.15:

resolution: {integrity: sha512-

```

eCKzkNSLywNeQTRBxJRQ0jxRCI2YWdMB3+PkWFo2BBQYC5mISLIViJThNtn6HUNqua1pnvgP5xX0nHbZb
Pj5oA==}
  cpu: [x64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-linux-arm/0.13.15:
  resolution: {integrity: sha512-
wUHttDi/ol0tD8ZgUMDH8Ef7IbDX+/UsWJOXaAyTdkT7Yy9ZBqPg8bgB/Dn3CZ9SBpNieozrPRHm0BGww7W
/jA==}
  cpu: [arm]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-linux-arm64/0.13.15:
  resolution: {integrity: sha512-
bYpuUIN6qYU9slzr/ltyLTR9YTBS7qUDymO8SV7kjeNext61OdmqFAzuVZom+OLW1HPHseBfJ/JfdSlx8oTUoA
==}
  cpu: [arm64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

/esbuild-linux-mips64le/0.13.15:
  resolution: {integrity: sha512-
KlVjIG828uFPyJkO/8gKwy9RbXhCEUeFsCGOJBepUlpa7G8/SeZgncUEz/tOOUJTcWMTmFMtdd3GEIGyAtbS
Wg==}
  cpu: [mips64le]
  os: [linux]
  requiresBuild:
true
  dev: true
  optional: true

/esbuild-linux-ppc64le/0.13.15:
  resolution: {integrity: sha512-
h6gYF+OsaqEuBjeesTBtUPw0bmiDu7eAeuc2OEHS6mV9/jPhPdH0Wzdeshb0BskRZxPhxPOjqZ+/OqLcxQwEQ
==}
  cpu: [ppc64]
  os: [linux]
  requiresBuild: true
  dev: true
  optional: true

```

```
/esbuild-netbsd-64/0.13.15:
  resolution: {integrity: sha512-3+yE9emwoevLMyvu+iR3rsa+Xwhie7ZEHMGDQ6dkqP/ndFzRHkobHUKTe+NCApSqG5ce2z4rFu+NX/UHnxlh3w==}
  cpu: [x64]
  os: [netbsd]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-openbsd-64/0.13.15:
  resolution: {integrity: sha512-wTfvwYJYAFL1fSs8yHIdf5GEE4NkbtbXtjLWjM3Cw8mmQKqsg8kTiqJ9NJQe5NX/5Qlo7Xd9r1yKMMkHllp5g==}
  cpu: [x64]
  os: [openbsd]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-sunos-64/0.13.15:
  resolution: {integrity: sha512-lbivT9Bx3t1iWwRsnGyBP9ODriEvWDRiweAs69vI+miJoeKwHWOCmSRukttbuzjZ8r1q0mQJ8Z7yUsDJ3hKdW==}
  cpu: [x64]
  os: [sunos]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-windows-32/0.13.15:
  resolution: {integrity: sha512-fDMEf2g3SsJ599MBR50cY5ve5lP1wyVwTe6aLJsM01KtxyKkB4UT+fc5MXQFn3RLrAIAZOG+tHC+yXObpSn7Nw==}
  cpu: [ia32]
  os: [win32]
  requiresBuild: true
  dev: true
  optional: true
```

```
/esbuild-windows-64/0.13.15:
  resolution: {integrity: sha512-9aMsPRGDWCd3bGjUIKG/ZOJPKsitzlxl/Q3C1XDswO6eNX/Jtwu4M+jb6YDH9hRSUflQWX0XKAfWzgy5Wk54JQ==}
  cpu: [x64]
  os: [win32]
  requiresBuild: true
```

dev: true
optional: true

/esbuild-windows-arm64/0.13.15:
resolution: {integrity: sha512-zzvYCVVpbwQQATaf3IG8mu1IwGEiDxKkYUdA4FpoCHi1KtPa13jeScYDjlW0Qh+ebWzpKfR2ZwvqAQkSWNcKjA==}
cpu: [arm64]
os: [win32]
requiresBuild: true
dev: true
optional: true

/esbuild/0.13.15:
resolution: {integrity: sha512-raCxt02HBKv8RJxE8vkTSCXGlyKHdEdGfUmiYb8wnabnaEmHzyW7DCHb5tEN0xU8ryqg5xw54mcwnYkC4x3Alw==}
hasBin: true
requiresBuild: true
optionalDependencies:
 esbuild-android-arm64:
0.13.15
 esbuild-darwin-64: 0.13.15
 esbuild-darwin-arm64: 0.13.15
 esbuild-freebsd-64: 0.13.15
 esbuild-freebsd-arm64: 0.13.15
 esbuild-linux-32: 0.13.15
 esbuild-linux-64: 0.13.15
 esbuild-linux-arm: 0.13.15
 esbuild-linux-arm64: 0.13.15
 esbuild-linux-mips64le: 0.13.15
 esbuild-linux-ppc64le: 0.13.15
 esbuild-netbsd-64: 0.13.15
 esbuild-openbsd-64: 0.13.15
 esbuild-sunos-64: 0.13.15
 esbuild-windows-32: 0.13.15
 esbuild-windows-64: 0.13.15
 esbuild-windows-arm64: 0.13.15
dev: true

/escape-goat/2.1.1:
resolution: {integrity: sha512-8/uIhbG12CsJy2JEW7D9pHbreaVaS/OpN3ycnyvElTdwM5n6GY6W6e2IPemfvGZeUMqZ9A/3GqIZMgKnBhAw/Q==}
engines: {node: '>=8'}
dev: true

/escape-string-regexp/1.0.5:

resolution: {integrity: sha1-G2HAViGQqN/2rjuyzwIAyhMLhtQ=}
engines: {node: '>=0.8.0'}
dev: true

/escape-string-regexp/4.0.0:
resolution: {integrity: sha512-
TtpcNJ3XAzz3Gq8sWRzJaVajRs0uVxA2YAkdb1jm2YkPz4G6egUFAYa3n5vtEIZefPk5Wa4UXbKuS5fKkJWdg
A==}
engines: {node: '>=10'}
dev: true

/estree-walker/2.0.2:
resolution: {integrity: sha512-
Rfkk/Mp/DL7JVje3u18FxFujQITNR2q6QfMSMB7AvCBx91NGj/ba3kCfza0f6dVDbw7YIRf/nDm7pQrCCyQ/w=
=}
dev: true

/exec-buffer/3.2.0:
resolution: {integrity: sha512-
wsiD+2Tp6BWHoVv3B+5Dcx6E7u5zky+hUwOHjuH2hKSLR3dvRmX8fk8UD8uqQixHs4Wk6eDmiegvRMPjKj7
wpA==}
engines: {node: '>=4'}
dependencies:
execa: 0.7.0
p-finally: 1.0.0
pify: 3.0.0
rimraf: 2.7.1
tempfile: 2.0.0
dev: true

/execa/0.7.0:
resolution: {integrity: sha1-lEvs00zEHuMqY6n68nrVpl/FI3c=}
engines: {node: '>=4'}
dependencies:
cross-spawn: 5.1.0
get-stream: 3.0.0
is-stream: 1.1.0
npm-run-path: 2.0.2
p-finally: 1.0.0
signal-exit: 3.0.6
strip-eof: 1.0.0
dev: true

/execa/1.0.0:
resolution: {integrity: sha512-
adbxcyWV46qiHyvSp50TKt05tB4tK3HcmF7/nxfAdhnox83seTDbwnaqKO4sXRy7roHAIFqJP/Rw/AuEbX61LA=
=}

```

engines: {node: '>=6'}
dependencies:
  cross-spawn: 6.0.5
  get-stream: 4.1.0
  is-stream: 1.1.0
  npm-run-path: 2.0.2
  p-finally: 1.0.0
  signal-exit: 3.0.6
  strip-eof: 1.0.0
dev: true

/executable/4.1.1:
  resolution: {integrity: sha512-8iA79xD3uAch729dUG8xaaBBFGaEa0wdD2VkYLFHwlqosEj/jT66AzcreRDSgV7ehnNLBW2WR5jIXwGKjVdT
Lg==}
  engines: {node: '>=4'}
  dependencies:
    pify: 2.3.0
  dev: true

/expand-template/2.0.3:
  resolution: {integrity: sha512-XYfuKMvj4O35f/pOXLObndIRvyQ+/+6AhODh+OKWj9S9498pHHn/IMszH+gt0fBCRWMNfk1ZSp5x3AifmnI2
vg==}
  engines: {node: '>=6'}
  dev: true

/ext-list/2.2.2:
  resolution: {integrity: sha512-u+SQgsubraE6zItfVA0tBuCBhfU9ogSRnsvygI7wht9TS510oLkBRXBsqopeUG/GBOIQyKZO9wjTqIu/sf5zFA==}
  engines: {node: '>=0.10.0'}
  dependencies:
    mime-db: 1.51.0
  dev: true

/ext-name/5.0.0:
  resolution: {integrity: sha512-yblEwXAbGv1VQDmow7s38W77hzAgJAO50ztBLMcUyUBfxv1HC+LGwtiEN+Co6LtlqT/5uwVOxsD4TNIilWh
wdQ==}
  engines: {node: '>=4'}
  dependencies:
    ext-list: 2.2.2
    sort-keys-length: 1.0.1
  dev: true

/external-editor/3.1.0:
  resolution: {integrity: sha512-hMQ4CX1p1izmuLYyZqLMO/qGNw10wSv9QDCPfzXfyFrOaCSSoRfqE1Kf1s5an66J5JZC62NewG+mK49jOCt

```

```

Qew==}
  engines: {node: '>=4'}
  dependencies:
    chardet: 0.7.0
    iconv-lite: 0.4.24
    tmp: 0.0.33
  dev: true

/fast-glob/3.2.11:
  resolution: {integrity: sha512-
xrO3+1bxSo3ZVHAnqzyuewYT6aMFHRAd4Kcs92MAonjwQZLsK9d0SF1IyQ3k5PoirxTW0Oe/RqFgMQ6TcNE
5Ew==}
  engines: {node: '>=8.6.0'}
  dependencies:
    '@nodelib/fs.stat': 2.0.5
    '@nodelib/fs.walk': 1.2.8
    glob-parent: 5.1.2
    merge2: 1.4.1
    micromatch: 4.0.4
  dev: true

/fastq/1.13.0:
  resolution: {integrity: sha512-
YpKpUnK8od0o1hmeSc7UUs/eB/vIPWJYjKck2QKIzAf71Vm1AAQ3EbuZB3g2JIy+pg+ERD0vqI79KyZiB2e2N
w==}
  dependencies:
    reusify: 1.0.4
  dev: true

/fd-slicer/1.1.0:
  resolution: {integrity: sha1-JcflnLH5B3+IkbvmHY85Dq4lhx4=}
  dependencies:
    pend: 1.2.0
  dev: true

/figures/1.7.0:
  resolution: {integrity: sha1-y+Hjr/zxzUS4DK3+0o3Hk6lwHS4=}
  engines: {node: '>=0.10.0'}
  dependencies:
    escape-string-regexp: 1.0.5
    object-assign: 4.1.1
  dev: true

/figures/3.2.0:
  resolution: {integrity: sha512-
yaduQFRKLXYOGgEn6AZau90j3ggSOyiqXU0F9JZfeXYhNa+Jk4X+s45A2zg5jns87GAFa34BBm2kXw4XpNcb
dg==}
  engines: {node: '>=8'}

```

dependencies:

escape-string-regexp: 1.0.5

dev: true

/file-type/16.5.3:

resolution: {integrity: sha512-

uVsl7iFhHSOY4bEONLlTK47iAHtNsFHWp5YE4xJfZ4rnX7S1Q3wce09XgqSC7E/xh8Ncv/be1lNoyprlUH/x6A=
=}

engines: {node: '>=10'}

dependencies:

readable-web-to-node-stream: 3.0.2

strtok3: 6.2.4

token-types: 4.1.1

dev: true

/file-type/3.9.0:

resolution: {integrity: sha1-JXoHg4TR24CHvESdEH1SpSZyuek=}

engines: {node: '>=0.10.0'}

dev: true

/file-type/4.4.0:

resolution: {integrity: sha1-G2AOX8ofvcboDApwxxyNul95BsU=}

engines: {node: '>=4'}

dev: true

/file-type/5.2.0:

resolution: {integrity: sha1-LdvqfHP/42No365J3DOMBYwritY=}

engines: {node: '>=4'}

dev: true

/file-type/6.2.0:

resolution: {integrity: sha512-

YPcTBDV+2Tm0VqjybVd32MHdlEGAtuxS3VAYsumFokDSMG+ROT5wawGlnHDoz7bfMcMDt9hXuXvXwoK
Ux2fkOg==}

engines: {node: '>=4'}

dev: true

/file-type/8.1.0:

resolution: {integrity: sha512-

qyQ0pzAy78gVoJsmYeNgl8uH8yKhr1lVhW7JbzJmnlRi0I4R2eEDEJZVKG8agpDnLpacwNbDhLNG/LMdxHD2
YQ==}

engines: {node: '>=6'}

dev: true

/filename-reserved-regex/2.0.0:

resolution: {integrity: sha1-q/c9+rc10EVECr/qLZHzieu/oik=}

engines: {node: '>=4'}

dev: true

/filenamify/2.1.0:
resolution: {integrity: sha512-
ICw7NTT6RsDp2mYKVd8Fu4cr6ITzGy3+u4vUujPkabyaz+03F24NWEX7fs5fp+kBonlaqPH8fAO2NM+SXt/JA=
=}
engines: {node: '>=4'}
dependencies:
filename-reserved-regex: 2.0.0
strip-outer: 1.0.1
trim-repeated: 1.0.0
dev: true

/fill-range/7.0.1:
resolution: {integrity: sha512-
qOo9F+dMUmC2Lcb4BbVvnKJxTPjCm+RRpe4gDuGrzkL7mEVI/djYSu2OdQ2Pa302N4oqkSg9ir6jaLWJ2USVp
Q==}
engines: {node: '>=8'}
dependencies:
to-regex-range: 5.0.1
dev: true

/find-up/1.1.2:
resolution: {integrity: sha1-ay6YIrGizgpgq2TWEozK1TyyTQ8=}
engines: {node: '>=0.10.0'}
dependencies:
path-exists: 2.1.0
pinkie-promise: 2.0.1
dev: true

/find-versions/3.2.0:
resolution: {integrity: sha512-
P8WRou2S+oe222TOCHitLy8zj+SIsVJh52VP4lvXkaFVnOFFdoWv1H1Jjvel1aI6NCFOAaeAVm8qrI0odiLcww=
=}
engines: {node: '>=6'}
dependencies:
semver-regex: 2.0.0
dev: true

/follow-redirects/1.14.7:
resolution: {integrity: sha512-
+hbxoLbFMbRKDwohX8GkTataGqO6Jb7jGwpAlwgy2blz25XtRm7KEzJM76R1WiNT5SwZkX4Y75SwBolkpm
E7iQ==}
engines: {node: '>=4.0'}
peerDependencies:
debug: '*'
peerDependenciesMeta:
debug:
optional: true

dev: false

/from2/2.3.0:

resolution: {integrity: sha1-i/tVAr3kpNNs/e6gB/zKIdfjqg8=}

dependencies:

inherits: 2.0.4

readable-stream: 2.3.7

dev: true

/fs-constants/1.0.0:

resolution: {integrity: sha512-

y6OAwoSIf7FyjMIv94u+b5rdheZEjzR63GTyZJm5qh4Bi+2YgwLCcl/fPFZkL5PSixOt6ZnKm+w+Hfp/Bciwow=
=}

dev: true

/fs-extra/10.0.0:

resolution: {integrity: sha512-

C5owb14u9eJwizKGdchcDUQeFtlSHHthBk8pbX9Vc1PFZrLombudjDnNns88aYslCyF6IY5SUw3Roz6xShcEIQ=
=}

engines: {node: '>=12'}

dependencies:

graceful-fs: 4.2.9

jsonfile: 6.1.0

universalify: 2.0.0

dev: true

/fs.realpath/1.0.0:

resolution: {integrity: sha1-FQStJSMVjKpA20onh8sBQRmU6k8=}

dev: true

/fsevents/2.3.2:

resolution: {integrity: sha512-

x1qMQR4xAeHTuB9uWm+fFRcIOgKBmiOBp+eXiyT7jsgVCq1bkVygt00oASowB7EdtpOHaaPgKt812P9ab+DD
KA==}

engines: {node: ^8.16.0 || ^10.6.0 || >=11.0.0}

os: [darwin]

requiresBuild: true

dev: true

optional: true

/function-bind/1.1.1:

resolution: {integrity: sha512-

yIovAzMX49sF8Yl58fSCWJ5svSLuaibPxXQJFLmBOBtuCr0Mf1KiPopGM9NiFjiYBCbfaa2Fh6breQ6ANVTI0A
==}

dev: true

/gauge/2.7.4:

```

resolution: {integrity: sha1-LANAXHU4w51+s3sxcCLjJfsBi/c=}
dependencies:
  aproba: 1.2.0
  console-control-strings: 1.1.0
  has-unicode: 2.0.1
  object-assign: 4.1.1
  signal-exit: 3.0.6
  string-width: 1.0.2
  strip-ansi: 3.0.1
  wide-align: 1.1.5
dev: true

/get-proxy/2.1.0:
  resolution: {integrity: sha512-
zmZIaQTwNnQb4R4fJUEp/FC51eZsc6EkErsPy3xtIYStaq8EB/hDIWipxsaI+E8rz0qD7f2sL/NA9Xee4RInJw==}
  engines: {node: '>=4'}
  dependencies:
    npm-conf: 1.1.3
  dev: true

/get-stdin/4.0.1:
  resolution: {integrity: sha1-uWjGsKBDhDJJAui/Gl3zJXmkUP4=}
  engines: {node: '>=0.10.0'}
  dev: true

/get-stream/2.3.1:
  resolution: {integrity: sha1-Xzj5PzRgCWZu4BUKBUFn+Rvdl4=}
  engines: {node: '>=0.10.0'}
  dependencies:
    object-assign: 4.1.1
    pinkie-promise:
      2.0.1
  dev: true

/get-stream/3.0.0:
  resolution: {integrity: sha1-jpQ9E1jcN1VQVOy+LtsFqhdO3hQ=}
  engines: {node: '>=4'}
  dev: true

/get-stream/4.1.0:
  resolution: {integrity: sha512-
GMat4EJ5161kIy2HevLlr4luNjBgvmj413KaQA7jt4V8B4RDsfHk7WQ9GVqfYyyx8OS/L66Kox+rJRNklLK7w=
=}
  engines: {node: '>=6'}
  dependencies:
    pump: 3.0.0
  dev: true

```

```

/get-stream/5.2.0:
  resolution: {integrity: sha512-
nBF+F1rAZVCu/p7rjzgA+Yb4lfYXrpl7a6VmJrU8wF9I1CKvP/QwPNZHnOlwbTkY6dvtFlzFMSyQXbLoTQPRp
A==}
  engines: {node: '>=8'}
  dependencies:
    pump: 3.0.0
  dev: true

/github-from-package/0.0.0:
  resolution: {integrity: sha1-l/tdlr/eiXMxPyDoKI75oWf6ZM4=}
  dev: true

/glob-parent/5.1.2:
  resolution: {integrity: sha512-
AOIgSQcepiJYwP3ARnGx+5VnTu2HBYdzbGP45eLw1vr3zB3vZLeyed1sC9hnbcOc9/SrMyM5RPQrkGz4aS9Zo
w==}
  engines: {node: '>= 6'}
  dependencies:
    is-glob: 4.0.3
  dev: true

/glob/7.2.0:
  resolution: {integrity: sha512-
lmLf6gtyrPq8rTjSmrO94wBeQbFR3HbLHbuyD69wuyQkImp2hWqMGB47OX65FBkPffO641IP9jWa1z4ivqG26
Q==}
  dependencies:
    fs.realpath: 1.0.0
    inflight: 1.0.6
    inherits: 2.0.4
    minimatch: 3.0.4
    once: 1.4.0
    path-is-absolute: 1.0.1
  dev: true

/global-agent/3.0.0:
  resolution: {integrity: sha512-
PT6XReJ+D07JvGoxQMkT6qji/jVNfX/h364XHZOWeRzy64sSFr+XJ5OX7LI3b4MPQzdL4H8Y8M0xzPpsVMw
A8Q==}
  engines: {node: '>=10.0'}
  dependencies:
    boolean: 3.1.4
    es6-error: 4.1.1
    matcher: 3.0.0
    roarr: 2.15.4
    semver: 7.3.5
    serialize-error: 7.0.1
  dev: true

```



```

/global-dirs/3.0.0:
  resolution: {integrity: sha512-
v8ho2DS5RiCjftj1nD9NmnfaOzTdud7RRnVd9kFNOjqZbISlx5DQ+OrTkywgd0dIt7oFCvKetZSHoHcP3sDdiA==
}
  engines: {node: '>=10'}
  dependencies:
    ini: 2.0.0
  dev: true

/globalthis/1.0.2:
  resolution: {integrity: sha512-
ZQnSFO1la8P7aulOQECnm0sSuoMeaSq0EEedXMBFF2QJO4uNcwbyhSgG3MruWNbFTqCLmxVwGOl7LZ9kA
SvHdeQ==}
  engines: {node: '>= 0.4'}
  dependencies:
    define-properties: 1.1.3
  dev: true

/globby/12.2.0:
  resolution: {integrity: sha512-
wiSuFQLZ+urS9x2gGPL1H5drc5twabmm4m2gTR27XDFyjUHHJUNsS8o/2aKyIF6IoBaR630atdher0XJ5g6OMmA
==}
  engines: {node: ^12.20.0 || ^14.13.1 || >=16.0.0}
  dependencies:
    array-union: 3.0.1
    dir-glob: 3.0.1
    fast-glob: 3.2.11
    ignore: 5.2.0
    merge2: 1.4.1
    slash: 4.0.0
  dev: true

/got/11.8.2:
  resolution: {integrity: sha512-
D0QywKgIe30ODs+fm8wMZiAcZjypcCodPNuMz5H9Mny7RJ+IjJ10BdmGW7OM7fHXP+O7r6ZwapQ/YQmMS
vB0UQ==}
  engines: {node: '>=10.19.0'}
  dependencies:
    '@sindresorhus/is': 4.4.0
    '@szmarczak/http-timer': 4.0.6
    '@types/cacheable-request': 6.0.2
    '@types/responselike': 1.0.0
    cacheable-lookup: 5.0.4
    cacheable-request: 7.0.2
    decompress-response: 6.0.0
    http2-wrapper: 1.0.3
    lowercase-keys: 2.0.0

```

```

    p-cancelable: 2.1.1
    responselike: 2.0.0
    dev: true

/got/7.1.0:
  resolution:
    {integrity: sha512-
Y5WMo7xKKq1muPsxD+KmrR8DH5auG7fBdDVueZwETwV6VytKyU9OX/ddpq2/1hp1vIPvVb4T81dKQz3Biv
kNLw==}
  engines: {node: '>=4'}
  dependencies:
    decompress-response: 3.3.0
    duplexer3: 0.1.4
    get-stream: 3.0.0
    is-plain-obj: 1.1.0
    is-retry-allowed: 1.2.0
    is-stream: 1.1.0
    isurl: 1.0.0
    lowercase-keys: 1.0.1
    p-cancelable: 0.3.0
    p-timeout: 1.2.1
    safe-buffer: 5.2.1
    timed-out: 4.0.1
    url-parse-lax: 1.0.0
    url-to-options: 1.0.1
    dev: true

/got/8.3.2:
  resolution: {integrity: sha512-
qjUJ5U/hawxosMryILOfZCkm3C84PLJS/0grRIpjAwu+Lkxxj5cxeCU25BG0/3mDSpXKTyZr8oh8wIgLaH0QCw=
=}
  engines: {node: '>=4'}
  dependencies:
    '@sindresorhus/is': 0.7.0
    cacheable-request: 2.1.4
    decompress-response: 3.3.0
    duplexer3: 0.1.4
    get-stream: 3.0.0
    into-stream: 3.1.0
    is-retry-allowed: 1.2.0
    isurl: 1.0.0
    lowercase-keys: 1.0.1
    mimic-response: 1.0.1
    p-cancelable:
0.4.1
    p-timeout: 2.0.1
    pify: 3.0.0
    safe-buffer: 5.2.1

```

timed-out: 4.0.1
url-parse-lax: 3.0.0
url-to-options: 1.0.1
dev: true

/got/9.6.0:

resolution: {integrity: sha512-R7eWptXuGYxwijs0eV+v3o6+XH1IqVK8dJOEecQfTmkncw9AV4dcw/Dhxi8MdlqPthxxpZyizMzyg8RTmEsG+Q==}
engines: {node: '>=8.6'}
dependencies:
 '@sindresorhus/is': 0.14.0
 '@szmarczak/http-timer': 1.1.2
 cacheable-request: 6.1.0
 decompress-response: 3.3.0
 duplexer3: 0.1.4
 get-stream: 4.1.0
 lowercase-keys: 1.0.1
 mimic-response: 1.0.1
 p-cancelable: 1.1.0
 to-readable-stream: 1.0.0
 url-parse-lax: 3.0.0
dev: true

/graceful-fs/4.2.9:

resolution: {integrity: sha512-NtNxqUcXgpW2iMrfqSfR73Glt39K+BLwWsPs94yR63v45T0Wbej7eRmL5cWfwEgqXnmjQp3zaJTshdRW/qC2ZQ==}
dev: true

/has-ansi/2.0.0:

resolution: {integrity: sha1-NPUEnOHs3ysGSa8+8k5F7TVBbZE=}
engines: {node: '>=0.10.0'}
dependencies:

ansi-regex: 2.1.1

dev: true

/has-flag/4.0.0:

resolution: {integrity: sha512-EykJT/Q1KjTWctppgIAgfSO0tKVuZUjhgMr17kqTumMl6Afv3EISleU7qZUzoXDFTAHTDC4NOoG/ZxU3EvlMPQ==}
engines: {node: '>=8'}
dev: true

/has-symbol-support-x/1.4.2:

resolution: {integrity: sha512-3ToOva++HaW+eCpgqZrCfN51IPB+7bJNVT6CUATzueB5Heb8o6Nam0V3HG5dlDvZU1Gn5QLcbahiKw/XVvk5

```

JJw==}
  dev: true

/has-to-string-tag-x/1.4.1:
  resolution: {integrity: sha512-
vdbKfmw+3LoOYVr+mtxHaX5a96+0f3DljYd8JOqvOLsf5mw2Otda2qCDT9qRqLAhrjyQ0h7ual5nOiASpsGNFw
==}
  dependencies:
    has-symbol-support-x: 1.4.2
  dev: true

/has-unicode/2.0.1:
  resolution: {integrity: sha1-4Ob+aijPUROIVeCG0Wkedx3iqLk=}
  dev: true

/has-yarn/2.1.0:
  resolution: {integrity: sha512-
UqBRqi4ju7T+TqGNdqAO0PaSVGsDGJUBQvk9eUWNGRY1CFGDzYhLWoM7JQEemnlvVcv/YEmc2wNW8B
C24EnUsw==}
  engines: {node: '>=8'}
  dev: true

/has/1.0.3:
  resolution: {integrity: sha512-
f2dvO0VU6Oej7RkWJGrehjbzMAjFp5/VKPP5rTpWIV4JHHZK1/BxbFRtf/siA2SWTe09caDmVtYYzWEIbBS4z
w==}
  engines: {node: '>= 0.4.0'}
  dependencies:
    function-bind: 1.1.1
  dev: true

/hosted-git-info/2.8.9:
  resolution: {integrity: sha512-
mxIDAb9Lsm6DoOJ7xH+5+X4y1LU/4Hi50L9C5sIswK3JzULS4bwk1FvjdBgvYR4bzT4tuUQiC15FE2f5HbLvY
w==}
  dev: true

/http-cache-semantics/3.8.1:
  resolution: {integrity: sha512-
5ai2iksyV8ZXmnZhHH4rWPoxxistEexSi5936zIQ1bnNTW5VnA85B6P/VpXiRM017IgRvb2kKo1a//y+0wSp3w=
=}
  dev: true

/http-cache-semantics/4.1.0:
  resolution: {integrity: sha512-
carPklcUh7ROWRK7Cv27RPtdhYhUsela/ue5/jKzjegVvXDqM2ILE9Q2BGn9JZJh1g87cp56su/FgQSzcWS8cQ==
}
  dev: true

```

```

/http2-wrapper/1.0.3:
  resolution: {integrity: sha512-
V+23sDMr12Wnz7iTcDeJr3O6AIxlnvT/bmaAAAP/Xda35C90p9599p0F1eHR/N1KILWSoWVAiOMFjBBXaXS
Mxg==}
  engines: {node: '>=10.19.0'}
  dependencies:
    quick-lru: 5.1.1
    resolve-alpn: 1.2.1
  dev: true

/iconv-lite/0.4.24:
  resolution: {integrity: sha512-
v3MXnZAcvnywkTUEZomIActle7RXXeedOR31wwl7VlyoXO4Qi9arvSenNQWne1TcRwhCL1HwLI21bEqdpj8/r
A==}
  engines: {node: '>=0.10.0'}
  dependencies:
    safer-buffer: 2.1.2
  dev: true

/ieee754/1.2.1:
  resolution: {integrity: sha512-
dcyqhDvX1C46lXZcVqCpK+FtMRQVdIMN6/Df5js2zouUsqG7I6sFxitlC+7KYK29KdXOLHdu9zL4sFnoVQnqa
A==}
  dev: true

/ignore/5.2.0:
  resolution: {integrity: sha512-
CmxgYGiEPCLhflnPPp1MoRmifwEIOgcHXxOBjv7mY96c+eWScsOP9c112ZyLdWHi0FxHjI+4uVhKYp/gcdR
mQ==}
  engines: {node: '>= 4'}
  dev: true

/imagemin-optipng/8.0.0:
  resolution: {integrity: sha512-
CUGfhfwqlPjAC0rm8Fy+R2DJDBGjzy2SkfyT09L8rasnF9jSoHFqJ1xxSZWK6HVPZBMhGPMxCTL70OgTHILF
5A==}
  engines: {node: '>=10'}
  dependencies:
    exec-buffer: 3.2.0
    is-png: 2.0.0
    optipng-bin: 7.0.1
  dev: true

/imagemin-zopfli/7.0.0:
  resolution: {integrity: sha512-
nmffj58rVb0O3AlCZLBBVKgyZ5MYPZZfKxUhvA7bwPGougHI/F7EUKSse9jkgXjdvTJYG2ojJeh5N67mYgBM
9g==}

```

```

engines: {node: '>=10'}
dependencies:
  exec-buffer: 3.2.0
  is-png:
2.0.0
  zopfli-png-bin: 6.0.1
dev: true

/imagemin/8.0.1:
  resolution: {integrity: sha512-
Q/QaPi+5HuwBZNtQRqUVk6hKacI6z9iWiCSQBisAv7uBynZwO7t1svkryKl7+iSQbkU/6t9DWnHz04cFs2WY7w
==}
  engines: {node: '>=12'}
  dependencies:
    file-type: 16.5.3
    globby: 12.2.0
    graceful-fs: 4.2.9
    junk: 3.1.0
    p-pipe: 4.0.0
    replace-ext: 2.0.0
    slash: 3.0.0
  dev: true

/import-fresh/3.3.0:
  resolution: {integrity: sha512-
veYYhQa+D1QbKznvhUHxb8faxlrwUnxseDAbAp457E0wLNio2bOSKnjYDhMj+YiAq61xrMGhQk9iXVk5Fzg
QMw==}
  engines: {node: '>=6'}
  dependencies:
    parent-module: 1.0.1
    resolve-from: 4.0.0
  dev: true

/import-lazy/2.1.0:
  resolution: {integrity: sha1-BWmOPUXIjo1+nZLLBYTnfwlvPkM=}
  engines: {node: '>=4'}
  dev: true

/import-lazy/3.1.0:
  resolution: {integrity: sha512-
8/gvXvX2JMn0F+CDISC4l6kOmVaLOO3XLkksI7CI3Ud95KDYJuYur2b9P/PUt/i/pDAMd/DulQsNbbbmRRsDI
Q==}
  engines: {node: '>=6'}
  dev: true

/imurmurhash/0.1.4:
  resolution: {integrity: sha1-khi5srkoojixPcT7a21XbyMUU+o=}
  engines: {node: '>=0.8.19'}

```

dev: true

/indent-string/2.1.0:

resolution: {integrity: sha1-ji1INIdCEhtKgHi3oTfppSBJ3IA=}

engines: {node: '>=0.10.0'}

dependencies:

repeating: 2.0.1

dev: true

/inflight/1.0.6:

resolution: {integrity: sha1-Sb1jMdfQLQwJvJEKEHW6gWW1bfk=}

dependencies:

once: 1.4.0

wrappy: 1.0.2

dev: true

/inherits/2.0.4:

resolution: {integrity: sha512-

k/vGaX4/Yla3WzyMCvTQOXYeIHvqOKtnqBduzTHpzpQZzAskKMhZ2K+EnBiSM9zGSoIFeMpXXKxa4dYeZIQqewQ==}

dev: true

/ini/1.3.8:

resolution: {integrity: sha512-

JV/yugV2uzW5iMRSiZAyDtQd+nxUnjeLt0acNdw98kKLrvuRVyB80tsREOE7yvGVgalhZ6RNXCmEHkUKBKxew==}

dev: true

/ini/2.0.0:

resolution: {integrity: sha512-

7PnF4oN3CvZF23ADhA5wRaYEQpJ8qygSktbTXWBeXWXmEVRXK+1ITciHWwHhsjv1TmW0MgacIv6hEi5pX5NQdA==}

engines: {node: '>=10'}

dev: true

/inquirer/8.1.2:

resolution: {integrity: sha512-

DHLKJwLPNgkfwNmsuEUKSejJFbkv0FMO9SMiQbjI3n5NQUCrSIBqP66ggqyz2a6t2qEolKrMjhQ3+W/xXgUQ+Q==}

engines: {node: '>=8.0.0'}

dependencies:

ansi-escapes: 4.3.2

chalk: 4.1.2

cli-cursor: 3.1.0

cli-width: 3.0.0

external-editor: 3.1.0

figures: 3.2.0

lodash: 4.17.21

mute-stream: 0.0.8
ora: 5.4.1
run-async: 2.4.1
rxjs: 7.5.2
string-width: 4.2.3
strip-ansi: 6.0.1
through: 2.3.8
dev: true

/into-stream/3.1.0:

resolution: {integrity: sha1-lvsKk2wSur1v8XUqF9BWFqvQlMY=}
engines: {node: '>=4'}
dependencies:
 from2: 2.3.0
 p-is-promise: 1.1.0
dev: true

/is-arrayish/0.2.1:

resolution: {integrity: sha1-d8mYQFJ6qOyxqLppe4BkWnqSap0=}
dev: true

/is-arrayish/0.3.2:

resolution: {integrity: sha512-eVRqCvVLZbuw3GrM63ovNSNAeA1K16kaR/LRY/92w0zxQ5/1YzwbIUx652i4Xs9RwAGjW9d9y6X88t8OaAJfWQ==}
dev: true

/is-binary-path/2.1.0:

resolution: {integrity: sha512-ZMERYes6pDydyuGidse7OsHxtbI7WVeUEozgR/g7rd0xUimYNlvZRE/K2MgZTjWy725IfelLeVcEM97mmtRGXw==}
engines: {node: '>=8'}
dependencies:
 binary-extensions: 2.2.0
dev: true

/is-ci/2.0.0:

resolution: {integrity: sha512-YfJT7rkpQB0updsdHLGWrvhBJfczNNawYDNlyQXJz0lViGf75O8EBPKSdvw2rF+LGCsX4FZ8tcr3b19LcZq4w==}
hasBin: true
dependencies:
 ci-info: 2.0.0
dev: true

/is-core-module/2.8.1:

resolution: {integrity: sha512-SdNCUs284hr40hFTFP6l0IfZ/RSrMXF3qgoRHd3/79unUTvrFO/JoXwkGm+5J/Oe3E/b5GsnG330uUNgRpu1PA=


```
=}
dependencies:
  has: 1.0.3
dev: true

/is-extglob/2.1.1:
  resolution: {integrity: sha1-qIwCU1eR8C7TfHahueqXc8gz+MI=}
  engines: {node: '>=0.10.0'}
dev: true

/is-finite/1.1.0:
  resolution: {integrity: sha512-cdyMtqX/BOqqNBBiKlIVkytNHm49MtMIYyn1zzzvJKWmFMlGzm+ry5BBfYyeY9YmNKbRSo/o7OX9w9ale0wg3w==}
  engines: {node: '>=0.10.0'}
dev: true

/is-fullwidth-code-point/1.0.0:
  resolution: {integrity: sha1-754xOG8DGn8NZDr4L95QxFfvAMs=}
  engines:
    {node: '>=0.10.0'}
  dependencies:
    number-is-nan: 1.0.1
dev: true

/is-fullwidth-code-point/3.0.0:
  resolution: {integrity: sha512-cdzm58600336246392+33j30e5893604993da38188da88187b3f3e212340827427e3c834}
  engines: {node: '>=8'}
dev: true

/is-glob/4.0.3:
  resolution: {integrity: sha512-48O3387+9IuU5Hy6OVyCrzA0U1E4+XRoWoBq9mDv+6ZkE8G8q78OJ8BnkD1hXs4Fob8k8nF2s4eH0X0}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-extglob: 2.1.1
dev: true

/is-installed-globally/0.4.0:
  resolution: {integrity: sha512-7z4rBlKdP04X3Oj/t9BXWjZS6VX6kDnqCymDRwI4j33u3d0pGqS23Y71wGZCQh3i70a4qzjGEU9+oYQ}
  engines: {node: '>=10'}
  dependencies:
    global-dirs: 3.0.0
    is-path-inside: 3.0.3
```

dev: true

/is-interactive/1.0.0:

resolution: {integrity: sha512-2HvIEKRoqS62guEC+qBjpvRubdX910WCMuJTZ+I9yvqKU2/12eSL549HMwtabb4oupdj2sMP50k+XJfB/8JE6w==}
engines: {node: '>=8'}
dev: true

/is-natural-number/4.0.1:

resolution: {integrity: sha1-q5124dtM7VHjXeDHLr7PCfc0zeg=}
dev: true

/is-npm/5.0.0:

resolution: {integrity: sha512-WW/rQLOazUq+ST/bCAVBp/2oMERWLsR7OrKyt052dNDk4DHcDE0/7QsXITlmi+VBcV13DflbysG3tZJm5RfdBA==}
engines: {node: '>=10'}
dev: true

/is-number/7.0.0:

resolution: {integrity: sha512-41Cifkg6e8TylSpdtTpeLVMqvSBEVzTttHvERD741+pnZ8ANv0004MRL43QKPDlkK9cGvNp6NZWZUBlbGXYxng==}
engines: {node: '>=0.12.0'}
dev: true

/is-obj/2.0.0:

resolution: {integrity: sha512-drqDG3cbczxxEJR0OXcOjtdp1J/lyp1mNn0xaznRs8+muBhgQcrnbspox5X5fOw0HnMnbfDzvnEMEtqDEJEo8w==}
engines: {node: '>=8'}
dev: true

/is-object/1.0.2:

resolution: {integrity: sha512-2rRIahhZr2UWb45fIOuvZGpFtz0TyOZLf32KxBbSoUCeZR495zCKIWUKKUByk3geS2eAs7ZAABt0Y/Rx0GiQGA==}
dev: true

/is-path-inside/3.0.3:

resolution: {integrity: sha512-Fd4gABb+ycGAmKou8eMftCupSir5lRxqf4aD/vd0cD2qc4HL07OjCeuHMr8Ro4CoMaeCKDB0/ECBOVWjTwUvPQ==}
engines: {node: '>=8'}
dev: true

/is-plain-obj/1.1.0:

resolution: {integrity: sha1-caUMhCnfync8kqOQpKA7OfzVHT4=}
engines: {node: '>=0.10.0'}
dev: true

/is-png/2.0.0:

resolution: {integrity: sha512-4KPGizaVGj2LK7xwJIz8o5B2ubu1D/vcQsgOGFEDlpcvgZHto4gBnyd0ig7Ws+67ixmwKoNmu0hYnp06AaKb5g==}
engines: {node: '>=8'}
dev: true

/is-png/3.0.0:

resolution: {integrity: sha512-waa2qEuqgLjjYT14KOUQqAEIRRIv7ttkzPVctY/qv+IAKnzXf+JAPKQas50RgO0ECPDUG/iB1zQmwpYB9kkZtQ==}
engines: {node: '>=12'}
dev: true

/is-retry-allowed/1.2.0:

resolution: {integrity: sha512-RUbUeKwvm3XG2VYamhJL1xFktgJvPzL0Hq8C+6yrWlswDy3BIXGqCxxhkc30N9jqK311gVU137K8Ei55/zVJRg==}
engines: {node: '>=0.10.0'}
dev: true

/is-stream/1.1.0:

resolution: {integrity: sha1-EtSj3U5o4Lec6428hBc66A2RyKQ=}
engines: {node: '>=0.10.0'}
dev: true

/is-typedarray/1.0.0:

resolution: {integrity: sha1-5HnICFjfDBsR3dppQPlgEfzaSpo=}
dev: true

/is-unicode-supported/0.1.0:

resolution: {integrity: sha512-knxG2q4UC3u8stRGyAVJCOdxFmv5DZiRcdlIaAQXAbSfJya+OhopNotLQrstBhququ4ZpuKbDc/8S6mgXgPFPw==}
engines: {node: '>=10'}
dev: true

/is-utf8/0.2.1:

resolution: {integrity: sha1-Sw2hRCEE0bM2NA6AeX6GXPOffXI=}
dev: true

/is-yarn-global/0.3.0:

resolution: {integrity: sha512-VjSeb/IHmkoyd8ryPVIKvOCn4D1koMqY+vqyjUfc3xyKtP4dYOxM44sZrnqQSzSds3xyOrUTLTC9LVCVgLngw

```

==}
  dev: true

/isarray/1.0.0:
  resolution: {integrity: sha1-u5NdSFgsuhaMBoNJV6VKPgcSTxE=}
  dev: true

/isexe/2.0.0:
  resolution: {integrity: sha1-6PvzdNxVb/iUehDcsFctYz8s+hA=}
  dev: true

/isurl/1.0.0:
  resolution: {integrity: sha512-1P/yWsxPlDtn7QeRD+ULKQPaIaN6yF368GZ2vDfv0AL0NwpStafjWCDDdn0k8wgFMWpVAqG7oJhxHnlud42i9w==}
  engines: {node: '>= 4'}
  dependencies:
    has-to-string-tag-x: 1.4.1
    is-object: 1.0.2
  dev: true

/json-buffer/3.0.0:
  resolution: {integrity: sha1-Wx85evx11ne96Lz8Dkfh+aPZqJg=}
  dev: true

/json-buffer/3.0.1:
  resolution: {integrity: sha512-4bV5BfR2mqfQTJm+V5tPPdf+ZpuhiIvTuAB5g8kcrXOZpTT/QwwVRWBywX1ozr6lEuPdbHxwaJlm9G6mI2sfSQ==}
  dev: true

/json-stringify-safe/5.0.1:
  resolution: {integrity: sha1-Epai1Y/UXxmg9s4B1lcB4sc1tus=}
  dev: true

/jsonfile/6.1.0:
  resolution: {integrity: sha512-5dgndWOriYSm5cnYaJNhalLNDKOqFwyDB/rr1E9ZsGciGvKPs8R2xYGCacuf3z6K1YKDz182fd+fY3cn3pMqXQ==}
  dependencies:
    universalify: 2.0.0
  optionalDependencies:
    graceful-fs: 4.2.9
  dev: true

/junk/3.1.0:
  resolution: {integrity: sha512-pBxcB3LFC8QVgdggvZWyeys+hnrNWg4OcZIU/1X59k5jQdLBICsYGRQaz234SqoRLTCgMH00fY0xRJH+F9M

```

```

ETQ==}
  engines: {node: '>=8'}
  dev: true

/keyv/3.0.0:
  resolution: {integrity: sha512-
eguHnq22OE3uVoSYG0LVWNP+4ppamWr9+zWBe1bsNcovIMy6huUJFPgy4mGwCd/rnl3vOLGW1MTlu4c57C
T1xA==}
  dependencies:
    json-buffer: 3.0.0
  dev: true

/keyv/3.1.0:
  resolution: {integrity: sha512-
9ykJ/46SN/9KPM/sichzQ7OvXyGDYKGTaDlKMGCAlg2UK8KRy4jb0d8sFc+0Tt0YYnThq8X2RZgCg74RPxgc
VA==}
  dependencies:
    json-buffer: 3.0.0
  dev: true

/keyv/4.0.5:
  resolution: {integrity: sha512-
531pkGLqV3BMg0eDqqJFI0R1mkK1Nm5xIP2mM6keP5P8WfFtCkg2IOwplTUmlGoTgIg9yQYZ/kdihhz89XH3v
A==}
  dependencies:
    json-buffer: 3.0.1
  dev: true

/kleur/4.1.4:
  resolution: {integrity: sha512-
8QADVssbrFjivHWQU7KkMgptGTl6WAcSdlbBPY4uNF+mWr6DGcKrvY2w4FQJoXch7+fKMjj0dRrL75vk3k2
3OA==}
  engines: {node: '>=6'}
  dev: true

/latest-version/5.1.0:
  resolution: {integrity: sha512-
weT+r0kTkRQdCdYCNtkMwWXQTMEswKrFBkm4ckQOMVhhqhIMI1UT2hMj+1iigIhgSZm5gTmrRXBNoGU
gaTY1xA==}
  engines: {node: '>=8'}
  dependencies:
    package-json: 6.5.0
  dev: true

/load-json-file/1.1.0:
  resolution: {integrity: sha1-lWkFcI1YtLq0wiYbBPWfMcmTdMA=}
  engines: {node: '>=0.10.0'}
  dependencies:

```

graceful-fs: 4.2.9
parse-json: 2.2.0
pify: 2.3.0
pinkie-promise: 2.0.1
strip-bom: 2.0.0
dev: true

/lodash/4.17.21:
resolution: {integrity: sha512-v2kDEe57lecTulaDIuNTPy3Ry4gLGJ6Z1O3vE1krgXZNrsQ+LFTGHVxVjcXPs17LhbZVGedAJv8XZ1tvj5FvSg=
=}
dev: true

/log-symbols/4.1.0:
resolution: {integrity: sha512-8XPvpAA8uyhfteu8pIvQxpJZ7SYYdpUivZpGy6sFsBuKRY/7rQGavedeB8aK+Zkyq6upMFVL/9AW6vOYzfRyLg==}
engines: {node: '>=10'}
dependencies:
chalk: 4.1.2
is-unicode-supported: 0.1.0
dev: true

/logalot/2.1.0:
resolution: {integrity: sha1-X46MkNME7fElMJUaVVSruMXj9VI=}
engines: {node: '>=0.10.0'}
dependencies:
figures: 1.7.0
squeak: 1.3.0
dev: true

/longest/1.0.1:
resolution: {integrity: sha1-MKCy2jj3N3DoKUoNIuZiXtd9AJc=}
engines: {node: '>=0.10.0'}
dev: true

/loud-rejection/1.6.0:
resolution: {integrity: sha1-W0b4AUft7leIcPCG0Eghz5mOVR8=}
engines: {node: '>=0.10.0'}
dependencies:
currently-unhandled: 0.4.1
signal-exit: 3.0.6
dev: true

/lowercase-keys/1.0.0:
resolution: {integrity: sha1-TjNms55/VFfjXxMkvfb4jQv8cwY=}
engines: {node: '>=0.10.0'}
dev:

true

/lowercase-keys/1.0.1:

resolution: {integrity: sha512-G2Lj61tXDnVFFOih8VZds+SoQjtQC3dgokKdDG2mTm1tx4m50NUHBOZSBwQQHyy0V12A0JTG4icfZQH+xPyh8VA==}
engines: {node: '>=0.10.0'}
dev: true

/lowercase-keys/2.0.0:

resolution: {integrity: sha512-tqNXrS78oMOE73NMxK4EMLQsQowWf8jKooH9g7xPavRT706R6bkQJ6DY2Te7QukaZsulxa30wQ7bk0pm4XiHmA==}
engines: {node: '>=8'}
dev: true

/lpad-align/1.1.2:

resolution: {integrity: sha1-IfYArBwwlcPG5JfuZyce4ISB/p4=}
engines: {node: '>=0.10.0'}
hasBin: true
dependencies:
 get-stdin: 4.0.1
 indent-string: 2.1.0
 longest: 1.0.1
 meow: 3.7.0
dev: true

/lru-cache/4.1.5:

resolution: {integrity: sha512-sWZlbEP2OsHNkXrMl5GYk/jKk70MBng6UU4YI/qGDYbgf6YbP4EvmqISbXCoJiRKs+1bSpFHVgQxvJ17F2li5g==}
dependencies:
 pseudomap: 1.0.2
 yallist: 2.1.2
dev: true

/lru-cache/6.0.0:

resolution: {integrity: sha512-Jo6dJ04CmSjuznwJSS3pUeWmd/H0ffTlkXXgwZi+eq1UCmqQwCh+eLsYOYCwY991i2Fah4h1BEMCx4qThGbsiA==}
engines: {node: '>=10'}
dependencies:
 yallist: 4.0.0
dev: true

/magic-string/0.25.7:

resolution: {integrity: sha512-4CrMT5DOHTDk4HYDlzmwu4FVCcIYI8gauveasrdCu2IKIFOJ3f0v/8MDGJCDL9oD2ppz/Av1b0Nj345H9M+XI

```

A==}
dependencies:
  sourcemap-codec: 1.4.8
dev: true

/make-dir/1.3.0:
  resolution: {integrity: sha512-2w31R7SJtieJJnQtGc7RVL2StM2vGYVfqUOvUDxH6bC6aJTxPxTF0GnIgCyu7tjockiUWAYQRbxa7vKn34s5sQ
==}
  engines: {node: '>=4'}
  dependencies:
    pify: 3.0.0
  dev: true

/make-dir/3.1.0:
  resolution: {integrity: sha512-3g3FeP20LNwhALb/6Cz6Dd4F2ngze0jz7tbzrD2wAV+o9FeNHe4rL+yK2md0J/fiSf1sa1ADhXqi5+oVwOM/eGw=
=}
  engines: {node: '>=8'}
  dependencies:
    semver: 6.3.0
  dev: true

/map-obj/1.0.1:
  resolution: {integrity: sha1-2TPOuSBdgr3PSIb2dCvcK03qFG0=}
  engines: {node: '>=0.10.0'}
  dev: true

/matcher/3.0.0:
  resolution: {integrity: sha512-OkeDaAZ/bQCxeFAozM55PKcKU0yJMPGifLwV4Qgjit+5MoAfSQN4lsLJeXZ1b8w0x+/Emda6MZgXS1jvsapn
g==}
  engines: {node: '>=10'}
  dependencies:
    escape-string-regexp: 4.0.0
  dev: true

/meow/3.7.0:
  resolution: {integrity: sha1-cstmi0JSKCKku/qFaJJYcwioAfs=}
  engines: {node: '>=0.10.0'}
  dependencies:
    camelcase-keys: 2.1.0
    decamelize: 1.2.0
    loud-rejection: 1.6.0
    map-obj: 1.0.1
    minimist: 1.2.5
    normalize-package-data: 2.5.0
    object-assign: 4.1.1

```


read-pkg-up: 1.0.1
redent: 1.0.0
trim-newlines: 1.0.0
dev: true

/merge2/1.4.1:
resolution: {integrity: sha512-8q7VEgMJW4J8tcfVPy8g09NcQwZdbwFEqhe/WZkoIzjn/3TGDwtOCYtXGxA3O8tPzpczCCDgv+P2P5y00ZJOOg==}
engines: {node: '>= 8'}
dev: true

/micromatch/4.0.4:
resolution: {integrity: sha512-pRmzw/XUcwXGpD9aI9q/0XOwLNygiETJ8y0ao0wdqprzDa4YnxLcz7fQRZr8voh8V10kGhABbNcHVk5wHgWwg==}
engines: {node: '>=8.6'}
dependencies:
 braces: 3.0.2
 picomatch: 2.3.1
dev: true

/mime-db/1.51.0:
resolution: {integrity: sha512-5y8A56jg7XVQx2mbv1lu49NR4dokRnhZYTtL+KGfaa27uq4pSTXkwQkFJl4pkRMynFz/EtYDSkiiEHx3F7UN6g==}
engines: {node: '>= 0.6'}
dev: true

/mimic-fn/2.1.0:
resolution: {integrity: sha512-OqbOk5oEQeAZ8WXWydlu9HJjz9WVdEIvamMCCXmuqUYjTknH/sqsWvhQ3vgwKFRR1HpjvNBKQ37nbJgYzGqGcg==}
engines: {node: '>=6'}
dev: true

/mimic-response/1.0.1:
resolution: {integrity: sha512-j5EctnKH7amfV/q5Hgmoal1g2QHFJRraOtmx0JpIqkxhBhI/IJS1nMpQ45hVarwNETOoWEimndZ4QK0RHxuxQ==}
engines: {node: '>=4'}
dev: true

/mimic-response/2.1.0:
resolution: {integrity: sha512-wXqjST+SLt7R009ySCglWBCFpjUygmCIfD790/kVbiGmUgfYGuB14PiTd5DwVxSV4NcYHjzMkoj5LjQZwTQLEA==}

engines: {node: '>=8'}

dev: true

/mimic-response/3.1.0:

resolution: {integrity: sha512-

z0yWI+4FDrrweS8Zmt4Ej5HdJmky15+L2e6Wgn3+iK5fWzb6T3fhNFq2+MeTRb064c6Wr4N/wv0DzQTjNzHNGQ==}

engines: {node: '>=10'}

dev: true

/min-indent/1.0.1:

resolution: {integrity: sha512-

I9jwMn07Sy/IwOj3zVkVik2JTVgpaykDZEigL6Rx6N9LbMywwUSMtxET+7IVoDLLd3O3IXwJwvuuns8UB/HeAg==}

engines: {node: '>=4'}

dev: true

/minimatch/3.0.4:

resolution: {integrity: sha512-

yJHVQEhyqPLUTgt9B83PXu6W3rx4MvvHvSUvToogpwoGDOUQ+yDrR0HRot+yOCdCO7u4hX3pWft6kWBBCqhq0UA==}

dependencies:

brace-expansion: 1.1.11

dev: true

/minimist/1.2.5:

resolution: {integrity: sha512-

FM9nNUYrRBAELZQT3xeZQ7fmMOBg6nWNmJKTcgsJeaLstP/UODVpGsr5OhXhhXg6f+qtJ8uiZ+PUxkDWcgIXLw==}

dev: true

/mkdirp-classic/0.5.3:

resolution: {integrity: sha512-

gKLcREMhtuZRwRAfqP3RfW+TK4JqApVBtOIftVgjuABpAtpxhPGaDcfvvhNvD0B8iD1oUr/tX35NjcaY6Ns/A==}

dev: true

/mkdirp/0.5.5:

resolution: {integrity: sha512-

NKmALESf6jMGym1++R0Ra7wvhV+wFW63FaSOFpwRahvea0gMUcGUhVeAg/0BC0wiv9ih5NYPB1Wn1UEI1/L+xQ==}

hasBin: true

dependencies:

minimist: 1.2.5

dev: true

/mri/1.2.0:

resolution: {integrity: sha512-

```

tzzskb3bG8LvYGFF/mDTpq3jpI6Q9wc3LEmBaghu+DdCssd1FakN7Bc0hVNmEyGq1bq3RgfkCb3cmQLpNPoro
A==}
  engines:
{node: '>=4'}
  dev: true

/ms/2.1.2:
  resolution: {integrity: sha512-
sGkPx+VjMtmA6MX27oA44FBFELFCZZ4S4XqeGOXCv68tT+jb3vk/RyaKWP0PTKyWtmLSM0b+adUTEvbs1P
EaH2w==}
  dev: true

/ms/2.1.3:
  resolution: {integrity: sha512-
6FlzubTLZG3J2a/NVCAleEhjqz5oxgHyaCU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xAOtHnSO/tXtF3WRTIA==
}
  dev: true

/mute-stream/0.0.8:
  resolution: {integrity: sha512-
nnbWWOkoWyUsTjKrhgD0dcz22mdkSnpYqbEjIm2nhwhuxlSkpywJmBo8h0ZqJdkp73mb90SssHkN4rsRaBAfA
A==}
  dev: true

/nanoid/3.2.0:
  resolution: {integrity: sha512-
fmsZY9lpn69Ad5eDn7FMcnnsR+8R34W9qJEijxYhTbfOWzr22n1QxCMzXLK+ODyW2973V3Fux959iQoUxzU
IA==}
  engines: {node: ^10 || ^12 || ^13.7 || ^14 || >=15.0.1}
  hasBin: true
  dev: true

/napi-build-utils/1.0.2:
  resolution: {integrity: sha512-
ONmRUqK7zj7DWX0D9ADe03wbwOBZxNAf20PlGfCWQcD3+/MakShIHrMqx9YwPTfxDdF1zLeL+RGZiR9
kGMLdg==}
  dev: true

/nice-try/1.0.5:
  resolution: {integrity: sha512-
1nh45deeb5olNY7eX82BkPO7SSxR5SSYJiPTtTdfUVYwAl8CKMA5N9PjTYkHiRjisVcxcQ1HXdlhx2qxxJzLN
Q==}
  dev: true

/node-abi/2.30.1:
  resolution: {integrity: sha512-
/2D0wOQPgaUWzVSVgRMx+trKJRC2UG4SUc4oCJoXx9Uxjtp0Vy3/kt7zcbxHF8+Z/pK3UloLWzBISg72brfy1w
==}

```

dependencies:

semver: 5.7.1

dev: true

/node-addon-api/3.2.1:

resolution: {integrity: sha512-

mmcei9JghVNDYydghQmeDX8KoAm0FAiYyIcUt/N4nhyAipB17pllZQDOJD2fotxABnt4Mdz+dKTO7eftLg4d0A==}

dev: true

/normalize-package-data/2.5.0:

resolution: {integrity: sha512-

/5CMN3T0R4XTj4DcGaexo+roZSdSFW/0AOOTROrjxzCG1wrWXEsGbRKEvjllL+ZDE4sZlJr5ED4YW0yqmkK+eA==}

dependencies:

hosted-git-info: 2.8.9

resolve: 1.22.0

semver: 5.7.1

validate-npm-package-license: 3.0.4

dev: true

/normalize-path/3.0.0:

resolution: {integrity: sha512-

6eZs5Ls3WtCisHWp9S2GUy8dqkpGi4BVSz3GaqiE6ezub0512ESztXUwUB6C6IKbQkY2Pnb/mD4WYojCRwcuLA==}

engines: {node: '>=0.10.0'}

dev: true

/normalize-url/2.0.1:

resolution: {integrity: sha512-

D6MUW4K/VzoJ4rJ01JFKxDrtY1v9wrgzCX5f2qj/lzH1m/lW6MhUZFKerVsnyjOhOsYzI9Kqqak+10l4LvLpMw==}

engines: {node: '>=4'}

dependencies:

prepend-http: 2.0.0

query-string: 5.1.1

sort-keys: 2.0.0

dev: true

/normalize-url/4.5.1:

resolution: {integrity: sha512-

9UZCFRHQdNrFTpGg8+1INlg93B6zE0aXMFkw1WFwvO4SlZywu6aLg5Of0Ap/PgcbSw4LNxvMWXMeugwMCX0AA==}

engines: {node: '>=8'}

dev: true

/normalize-url/6.1.0:

resolution: {integrity: sha512-

DIL+XwOy3NxAQ8xuC0okPgK46iuVNAK01YN7RueYBqqFeGsBjV9XmCAzAdgt+667bCl5kPh9EqKKDwnaP
G1I7A==}

engines: {node: '>=10'}

dev: true

/npm-conf/1.1.3:

resolution: {integrity: sha512-
Yic4bZHZJOt9RCFbRP3GgpqhScOY4HH3V2P8yBj6CeYq118Qr+BLXqT2JvpJ00mryLESpgOxf5XlFv4ZjXxLSc
w==}

engines: {node: '>=4'}

dependencies:

config-chain: 1.1.13

pify: 3.0.0

dev: true

/npm-run-path/2.0.2:

resolution: {integrity: sha1-NakjLfo11wZ7TLLd8jV7GHFTbF8=}

engines: {node: '>=4'}

dependencies:

path-key: 2.0.1

dev: true

/npmlog/4.1.2:

resolution: {integrity: sha512-
2uUqazuKlTaSI/dC8AzicUck7+IrEaOnN/e0jd3Xtt1KcGpwx30v50mL7oPyr/h9bL3E4aZccVwpwP+5W9Vjkg==}

dependencies:

are-we-there-yet: 1.1.7

console-control-strings: 1.1.0

gauge: 2.7.4

set-blocking: 2.0.0

dev: true

/number-is-nan/1.0.1:

resolution: {integrity: sha1-CXtgK1NCKlIsGvuHkDGDNPQaAR0=}

engines: {node: '>=0.10.0'}

dev: true

/object-assign/4.1.1:

resolution: {integrity: sha1-IQmtx5ZYh8/AXLvUQsrIv7s2CGM=}

engines: {node: '>=0.10.0'}

dev: true

/object-keys/1.1.1:

resolution: {integrity: sha512-NuAESUOUMrlIXOfHKzD6bpPu3tYt3xvjdNdRIQ+FeT0lNb4K8WR70CaDxhuNguS2XG+GjkyMwOzsN5ZktImf
hLA==}

engines: {node: '>= 0.4'}

dev: true

```

/once/1.4.0:
  resolution: {integrity: sha1-WDsap3WWHUsROsF9nFC6753Xa9E=}
  dependencies:
    wrappy: 1.0.2
  dev: true

/onetime/5.1.2:
  resolution: {integrity: sha512-
kbpaSSGJTWdAY5KPVeMOKXSrPtr8C8C7wodJbcsd51jRnmD+GZu8Y0VoU6Dm5Z4vWr0Ig/1NkuWRKf7j5aa
YSg==}
  engines: {node: '>=6'}
  dependencies:
    mimic-fn: 2.1.0
  dev: true

/optipng-bin/7.0.1:
  resolution: {integrity: sha512-
W99mpdW7Nt2PpFiaO+74pkht7KEqkXkeRomdWXfEz3SALZ6hns81y/pm1dsGZ6ItUifchiNIP6ORDr1zETU1jA
==}
  engines: {node: '>=10'}
  hasBin: true
  requiresBuild: true
  dependencies:
    bin-build: 3.0.0
    bin-wrapper: 4.1.0
  dev: true

/ora/5.4.1:
  resolution: {integrity: sha512-
5b6Y85tPxZZ7QytO+BQzysW31HJku27cRIlkbAXaNX+BdcVi+LIRFmVXzeF6a7JCwJpyw5c4b+YSVImQIrBpu
Q==}
  engines: {node: '>=10'}
  dependencies:
    bl: 4.1.0
    chalk: 4.1.2
    cli-cursor: 3.1.0
    cli-spinners: 2.6.1
    is-interactive: 1.0.0
    is-unicode-supported: 0.1.0
    log-symbols: 4.1.0
    strip-ansi: 6.0.1
    wcwidth: 1.0.1
  dev: true

/os-filter-obj/2.0.0:
  resolution: {integrity: sha512-
uksVLsqG3pVdzzPvmAHpBK0wKxYItuzZr7SziusRPoz67tGV8rL1szZ6IdeUrbqLjGDwApBtN29eEE3IqGHOjg=

```

```

=}
```

engines: {node: '>=4'}

dependencies:

arch: 2.2.0

dev: true

/os-tmpdir/1.0.2:

resolution: {integrity: sha1-u+Z0BseaqFxc/sdm/lc0VV36EnQ=}

engines: {node: '>=0.10.0'}

dev: true

/p-cancelable/0.3.0:

resolution: {integrity: sha512-RVbZPLso8+jFeq1MfNvgXtCREd2raz/dKpacfTNxxs6pLEpEomM7gah6VeHSYV3+vo0OAi4MkArtQcWWXuQoyw==}

engines: {node: '>=4'}

dev: true

/p-cancelable/0.4.1:

resolution: {integrity: sha512-HNa1A8LvB1kie7cERyy21VNeHb2CWJJYqyyC2o3klWFFmGIFmWv2Z7sFgZH8ZiaYL95ydToKTFVXgMV/Os0bBQ==}

engines: {node: '>=4'}

dev: true

/p-cancelable/1.1.0:

resolution: {integrity: sha512-s73XxOZ4zpt1edZYZzvqhFa6uvQc1vwUa0K0BdtIZgQMAJj9IbebH+JkgKZc9h+B05PKHLOTl4ajG1BmNrVZlw==}

engines: {node: '>=6'}

dev: true

/p-cancelable/2.1.1:

resolution: {integrity: sha512-BZOr3nRQHOntUjTrH8+Lh54smKH0Hyur8We1V8DSMVrl5A2malOOwuJRnKRDjSnkoeBh4at6BwEnb5I7Jl31wg==}

engines: {node: '>=8'}

dev: true

/p-event/1.3.0:

resolution: {integrity: sha1-jmtPT2XHK8W2/ii3XtqHT5akoIU=}

engines: {node: '>=4'}

dependencies:

p-timeout: 1.2.1

dev: true

/p-event/2.3.1:

```

    resolution: {integrity: sha512-
    NQCqOFhbpVTMX4qMe8PF8lbGtzZ+LCiN7pcNrb/413Na7+TRoe1xkKUzuWa/YEJdGQ0FvKtj35EEbDoVPO2k
    bA==}
    engines: {node: '>=6'}
    dependencies:
      p-timeout: 2.0.1
    dev: true

  /p-finally/1.0.0:
    resolution: {integrity: sha1-P7z7FbiZpEEjs0ttzBi3JDNqLK4=}
    engines: {node: '>=4'}
    dev: true

  /p-is-promise/1.1.0:
    resolution: {integrity: sha1-nJRWmJ6fZYgBewQ01WCXZ1w9oF4=}
    engines: {node: '>=4'}
    dev: true

  /p-map-series/1.0.0:
    resolution: {integrity: sha1-v5j+V1cFZYqeE1G++4WuTB8Hvco=}
    engines: {node: '>=4'}
    dependencies:
      p-reduce: 1.0.0
    dev: true

  /p-pipe/4.0.0:
    resolution: {integrity: sha512-
    HkPfFklpZQPUKBFXzKFB6ihLriIHxnmuQdK9WmLDwe4hf2PdhhfWT/FJa+pc3bA1ywwKXtedxIRmd4Y7BTXE
    4w==}
    engines: {node: '>=12'}
    dev: true

  /p-reduce/1.0.0:
    resolution: {integrity: sha1-GMKw3ZNqRpClKfgjH1ig/bakffo=}
    engines: {node: '>=4'}
    dev: true

  /p-timeout/1.2.1:
    resolution: {integrity: sha1-XrOzU7f86Z8QGhA4iAuwVOu+o4Y=}
    engines: {node: '>=4'}
    dependencies:
      p-finally: 1.0.0
    dev: true

  /p-timeout/2.0.1:
    resolution: {integrity: sha512-
    88em58dDVB/KzPEx1X0N3LwFfYZPyDc4B6eF38M1rk9VTZMbxXXgjugz8mmwpS9Ox4BDZ+t6t3QP5+/gazw
    eIA==}

```



```

engines: {node: '>=4'}
dependencies:
  p-finally: 1.0.0
dev: true

/p-try/2.2.0:
  resolution: {integrity: sha512-R4nPAVTAU0B9D35/Gk3uJf/7XYbQcyohSKdvAxIRSNghFl4e71hVoGnBNQz9cWaXxO2I10KTC+3jMdvvoKw6dQ==}
  engines: {node: '>=6'}
dev: true

/package-json/6.5.0:
  resolution: {integrity: sha512-k3bdm2n25tkyxcjSKzB5x8kfVx1MdgsbPr0GkZcwHsLpba6cBjqCt1KlcChKEvxHicTB1FVMuwoijZ26xex5MQ==}
  engines: {node: '>=8'}
  dependencies:
    got: 9.6.0
    registry-auth-token: 4.2.1
    registry-url: 5.1.0
    semver: 6.3.0
dev: true

/parent-module/1.0.1:
  resolution: {integrity: sha512-GQ2EWRpQV8/o+Aw8YqtfZZPfNRWZYkbidE9k5rpl/hC3vtHHBfGm2Ifi6qWV+coDGkrUKZAxE3Lot5kcsRlh+g==}
  engines: {node: '>=6'}
  dependencies:
    callsites: 3.1.0
dev: true

/parse-json/2.2.0:
  resolution: {integrity: sha1-9ID0BDTvgHQfhGkJn43qGPVaTck=}
  engines: {node: '>=0.10.0'}
  dependencies:
    error-ex: 1.3.2
dev: true

/path-exists/2.1.0:
  resolution: {integrity: sha1-D+tsZPD8UY2adU3V77YscCJ2H0s=}
  engines: {node: '>=0.10.0'}
  dependencies:
    pinkie-promise: 2.0.1
dev: true

/path-is-absolute/1.0.1:

```

resolution: {integrity: sha1-F0uSaHNVNP+8es5r9TpanhtcX18=}
engines: {node: '>=0.10.0'}
dev: true

/path-key/2.0.1:

resolution: {integrity: sha1-QRyttXTFoUDTpLGRDUDYDMn0C0A=}
engines: {node: '>=4'}
dev: true

/path-key/3.1.1:

resolution: {integrity: sha512-ojmeN0qd+y0jszEtoY48r0Peq5dwMEklCOu6Q5f41lfkswXuKtYrhgoTpLnyIcHm24Uhqx+5Tqm2InSwLhE6Q==}
engines: {node: '>=8'}
dev: true

/path-parse/1.0.7:

resolution: {integrity: sha512-LDJzPVEEEPR+y48z93A0Ed0yXb8pABYgWo/k5YYdYgpY2/2EsOskJrq7lOHxryrVOn1ejG6oAp8ahvOIQD8sw==}
dev: true

/path-type/1.1.0:

resolution: {integrity: sha1-WcRPfuSR2nBNpBXaWkBwuk+P5EE=}
engines: {node: '>=0.10.0'}
dependencies:
 graceful-fs: 4.2.9
 pify: 2.3.0
 pinkie-promise: 2.0.1
dev: true

/path-type/4.0.0:

resolution: {integrity: sha512-gDKb8aZMDeD/tZW59P6+q0J9Mwkdl6xMV8TjnGP3qJVJ06bdMgkbBILU8IdfOsIsFz2BW1rNVT3XuNEl8zPAvw==}
engines: {node: '>=8'}
dev: true

/peek-readable/4.0.2:

resolution: {integrity: sha512-9fMaz6zoxw9ypO1KZy5RDJgSupEtu0Q+g/OqqsvHX3rKGR8qehRLYzsFARZ4bVvdvfknKiXvuDbkMnO1g6cRpQ==}
engines: {node: '>=8'}
dev: true

/pend/1.2.0:

resolution: {integrity: sha1-elfrVQpng/kRUzH89GY9XI4AelA=}

dev: true

/picocolors/1.0.0:

resolution: {integrity: sha512-1fygroTLlHu66zi26VoTDv8yRgm0Fccecssto+MhsZ0D/DGW2sm8E8AjW7NU5VVTRt5GxbeZ5qBuJr+HyLYkjQ==}
dev: true

/picomatch/2.3.1:

resolution: {integrity: sha512-JU3teHTNjmE2VCGFzuY8EXzCDVwEqB2a8fsIvwaStHhAWJEEvd1o1QD80CU6+ZdEXXSLbSsuLwJjkCBWqRQUVA==}
engines: {node: '>=8.6'}
dev: true

/pify/2.3.0:

resolution: {integrity: sha1-7RQaasBDqEnqWISY59yosVMw6Qw=}
engines: {node: '>=0.10.0'}
dev: true

/pify/3.0.0:

resolution: {integrity: sha1-5a5s0sEB/fPZpNB/DbxNtJ3SgXY=}
engines: {node: '>=4'}
dev: true

/pify/4.0.1:

resolution: {integrity: sha512-uB80kBFb/tfd68bVleG9T5GGsGPjJrLAUpR5PZIrhBnIaRTQRjQdJSsIKkOP6OAIjFbj7GOrcudc5pNjZ+geV2g==}
engines: {node: '>=6'}
dev: true

/pinkie-promise/2.0.1:

resolution: {integrity: sha1-ITXW36ejWMBprJsXh3YogihFD/o=}
engines: {node: '>=0.10.0'}
dependencies:
 pinkie: 2.0.4
dev: true

/pinkie/2.0.4:

resolution: {integrity: sha1-clVrgM+g1IqXToDnckjoDtT3+HA=}
engines: {node: '>=0.10.0'}
dev: true

/png2icons/2.0.1:

resolution: {integrity: sha512-GDEQJr8OG4e6JMp7mABtXFSEpgJa1CCpbQiAR+EjhkhJHnUL9zPPtbOrjsMD8gUbikgv3j7x404b0YJsV3aVFA==}

hasBin: true

dev: true

/postcss/8.4.5:

resolution: {integrity: sha512-jBDboWM8qpaqwkMwItqTQTiFikhs/67OYVvblFFTM7MrZjt6yMKd6r2kgXizEbTTljacm4NldIlZnhbjr84QYg==
}

engines: {node: ^10 || ^12 || >=14}

dependencies:

nanoid: 3.2.0

picocolors: 1.0.0

source-map-js: 1.0.2

dev: true

/prebuild-install/6.1.4:

resolution: {integrity: sha512-Z4vpywnK1lBg+zdPCVCsKq0xO66eEV9rWo2zrROGGiRS4JtueBOdlB1FnY8lcy7JsUud/Q3ijUxyWN26Ika0vQ=
=}

engines: {node: '>=6'}

hasBin: true

dependencies:

detect-libc: 1.0.3

expand-template: 2.0.3

github-from-package: 0.0.0

minimist: 1.2.5

mkdirp-classic: 0.5.3

napi-build-utils: 1.0.2

node-abi: 2.30.1

npmlog: 4.1.2

pump: 3.0.0

rc: 1.2.8

simple-get: 3.1.0

tar-fs: 2.1.1

tunnel-agent: 0.6.0

dev: true

/prepend-http/1.0.4:

resolution: {integrity: sha1-1PRWKwzjaW5BrFLQ4ALlemNdxtw=}

engines:

{node: '>=0.10.0'}

dev: true

/prepend-http/2.0.0:

resolution: {integrity: sha1-6SQ0v6XqjBn0HN/UAddBo8gZ2Jc=}

engines: {node: '>=4'}

dev: true

/process-nextick-args/2.0.1:

```

    resolution: {integrity: sha512-
3ouUOpQhtgrbOa17J7+uxOTpITYWaGP7/AhoR3+A+/1e9skrzelGi/dXzEYyvbxubEF6Wn2ypscTKiKJFFn1ag==}
    dev: true

/proto-list/1.2.4:
    resolution: {integrity: sha1-IS1b/hMYMGpCD2QCuOJv85ZHqEk=}
    dev: true

/pseudomap/1.0.2:
    resolution: {integrity: sha1-8FKijacOYYkX7wqKw0wa5aaChrM=}
    dev: true

/pump/3.0.0:
    resolution: {integrity: sha512-
LwZy+p3SFs1Pytd/jYct4wpv49HiYCd9Rlc5ZVdk0V+8Yzv6jR5Blk3TRmPL1ft69TxP0IMZGJ+WPFU2BFhww
==}
    dependencies:
      end-of-stream: 1.4.4
      once: 1.4.0
    dev: true

/pupa/2.1.1:
    resolution: {integrity: sha512-
l1jNAspIBSFqbT+y+5FosojNpVpF94nII+wDUppqP9enwOTfHx9f0gh5nB96vl+6yTpsJsypeNrwfzPrKuHB41A==}
    engines: {node: '>=8'}
    dependencies:
      escape-goat: 2.1.1
    dev: true

/query-string/5.1.1:
    resolution: {integrity: sha512-
gjWOsm2SoGlgLEdAGt7a6slVOk9mGiXmPFMqrEhLQ68rhQuBnpfs3+EmlvqKyxnCo9/PPIF+9MtY02S1aFg+Jw
==}
    engines: {node: '>=0.10.0'}
    dependencies:
      decode-uri-component: 0.2.0
      object-assign: 4.1.1
      strict-uri-encode: 1.1.0
    dev: true

/queue-microtask/1.2.3:
    resolution: {integrity: sha512-
NuaNSa6flKT5JaSYQzJok04JzTL1CA6aGhv5rfLW3PgqA+M2ChpZQnAC8h8i4ZFkBS8X5RqkDBHA7r4hej3K9
A==}
    dev: true

/quick-lru/5.1.1:

```

```

    resolution: {integrity: sha512-
WuyALRjWPDGtt/wzJiadO5AXY+8hZ80hVpe6MyivgraREW751X3SbhRvG3eLKOYN+8VEvqLcf3wdnt44Z4S4
SA==}
    engines: {node: '>=10'}
    dev: true

/rc/1.2.8:
  resolution: {integrity: sha512-
y3bGgqKj3QBdxLbLkomlohkvsA8gdAiUQlSBjNBhfn+BPxg4bc62d8TcBW15wavDfgexCgcccckhcZvywyQYPOw
==}
  hasBin: true
  dependencies:
    deep-extend: 0.6.0
    ini: 1.3.8
    minimist: 1.2.5
    strip-json-comments: 2.0.1
  dev: true

/read-chunk/3.2.0:
  resolution: {integrity: sha512-
CEjy9LCzhmD7nUpJ1oVOE6s/hBkejlCjEgLQHVNQznOSilOPb+kpKktLfFDK3/WP43+F80xkUTM2VOkYoSYv
Q==}
  engines: {node: '>=6'}
  dependencies:
    pify: 4.0.1
    with-open-file: 0.1.7
  dev: true

/read-pkg-up/1.0.1:
  resolution: {integrity: sha1-nWPBMnbAZZGNV/ACpX9AobZD+wI=}
  engines: {node: '>=0.10.0'}
  dependencies:
    find-up: 1.1.2
    read-pkg: 1.1.0
  dev: true

/read-pkg/1.1.0:
  resolution: {integrity: sha1-9f+qXs0pyzHAR0vKfXVra7KePyg=}
  engines: {node: '>=0.10.0'}
  dependencies:
    load-json-file: 1.1.0
    normalize-package-data: 2.5.0
    path-type: 1.1.0
  dev: true

/readable-stream/2.3.7:
  resolution: {integrity: sha512-
Ebho8K4jIbHAXnuxi7o42OrZgF/ZTNcsZj6nRKYUmkhLFq8CHItp/fy6hQZuZmP/n3yZ9VBUp4zz/mX8hmYPw=

```

```

=}
```

dependencies:

- core-util-is: 1.0.3
- inherits: 2.0.4
- isarray: 1.0.0
- process-nextick-args: 2.0.1
- safe-buffer: 5.1.2
- string_decoder: 1.1.1
- util-deprecate: 1.0.2

dev: true

/readable-stream/3.6.0:

resolution:

{integrity: sha512-BViHy7LKeTz4oNnkcLJ+IVSL6vpiFeX6/d3oSH8zCW7UxP2onchk+vTGB143xuFjHS3deTgkKoXXymXqymildA==}

engines: {node: '>= 6'}

dependencies:

- inherits: 2.0.4
- string_decoder: 1.3.0
- util-deprecate: 1.0.2

dev: true

/readable-web-to-node-stream/3.0.2:

resolution: {integrity: sha512-ePeK6cc1EcKLEhJFt/AebMCLL+GgSKhuygrZ/GLaKZYEecIgIECf4UaUuaByiGtzckwR4ain9VzUh95T1exYGw==}

engines: {node: '>=8'}

dependencies:

- readable-stream: 3.6.0

dev: true

/readdirp/3.6.0:

resolution: {integrity: sha512-hOS089on8RduqdbbhvQ5Z37A0ESjsqz6qnRcffiMU3495FuTdqSm+7bhJ29JvIOsBDEEnan5DPu9t3To9VRIMzA=}

engines: {node: '>=8.10.0'}

dependencies:

- picomatch: 2.3.1

dev: true

/redent/1.0.0:

resolution: {integrity: sha1-z5FqsflfHxbfsggi3W7H9zDCr94=}

engines: {node: '>=0.10.0'}

dependencies:

- indent-string: 2.1.0
- strip-indent: 1.0.1

dev: true

```

/registry-auth-token/4.2.1:
  resolution: {integrity: sha512-
6gkSb4U6aWJB4SF2ZvLb76yCBjcvufXBqvEx1HbmKPkutswjW1xNVRy0+daljIYRbogN7O0etYSlbiaEQyMy
w==}
  engines: {node: '>=6.0.0'}
  dependencies:
    rc: 1.2.8
  dev: true

/registry-url/5.1.0:
  resolution: {integrity: sha512-
8acYXXtI0AkQv6RAOjE3vOaIXZkT9wo4LOfbBKYYQEEnnMNBpKqdUrI6S4NT0KPIo/WVvJ5tE/X5LF/TQUf
0ekw==}
  engines: {node: '>=8'}
  dependencies:
    rc: 1.2.8
  dev: true

/repeating/2.0.1:
  resolution: {integrity: sha1-UhTfOpJtNVJwdSf7q0FdvAjQbdo=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-finite: 1.1.0
  dev: true

/replace-ext/2.0.0:
  resolution: {integrity: sha512-
UszKE5KVK6JvyD92nzMn9cDapSk6w/CaFZ96CnmDMUqH9oowfxF/ZjRITD25H4DnOQCILA4/j7jLGXXLVK
xAug==}
  engines: {node: '>= 10'}
  dev: true

/resolve-alpn/1.2.1:
  resolution: {integrity: sha512-
0a1F4l73/ZFZOakJnQ3FvkJ2+gSTQWz/r2KE5OdDY0TxPm5h4GkqkWWfM47T7HsbnOtcJVEF4epCVy6u7Q3K
+g==}
  dev: true

/resolve-from/4.0.0:
  resolution: {integrity: sha512-
pb/MYmXstAkysRFx8piNI1tGFNQIFA3vkE3Gq4EuA1dF6gHp/+vgZqsCGJapvy8N3Q+4o7FwvquPJcnZ7RYy4g
==}
  engines: {node: '>=4'}
  dev: true

/resolve/1.22.0:
  resolution: {integrity: sha512-

```


Hhtrw0nLeSrFQ7phPp4OOcVjLPieMnRlr5mcnVuMe7M/7eBn98A3hmFRLofFo3DLZkivSYwhRUJTyPyWak56
WLw==}

hasBin: true

dependencies:

- is-core-module: 2.8.1
- path-parse: 1.0.7
- supports-preserve-symlinks-flag: 1.0.0

dev: true

/responselike/1.0.2:

resolution: {integrity: sha1-kYcg7ztjHFZCvgaPFa3lpG9Loec=}

dependencies:

- lowercase-keys: 1.0.1

dev: true

/responselike/2.0.0:

resolution: {integrity: sha512-xH48u3FTB9VsZw7R+vvgaKeLKzT6jOogbQhEe/jewwnZgzPcnyWui2Av6JpoYZF/91uueC+IqhWqeURw5/qhCw==}

dependencies:

- lowercase-keys: 2.0.0

dev: true

/restore-cursor/3.1.0:

resolution: {integrity: sha512-l+sSefzHpj5qimhfSE5a8nufZYAM3sBSVMApTYkmC+4EH2anSGaEMXSD0izRQbu9nfyQ9y5JrVmp7E8oZrUjvA==}

engines: {node: '>=8'}

dependencies:

- onetime: 5.1.2
- signal-exit: 3.0.6

dev: true

/reusify/1.0.4:

resolution: {integrity: sha512-U9nH88a3fc/ekCF1l0/UP1IosiuIjyTh7hBvXVMHYgVcfGvt897Xguj2UOLDeI5BG2m7/uwyaLVT6fbtCwTyzw==}

engines: {iojs: '>=1.0.0', node: '>=0.10.0'}

dev: true

/rimraf/2.7.1:

resolution: {integrity: sha512-uWjbaKIK3T1OSVptzX7Nl6PvQ3qAGtKEtVRjRuazjfl3Bx5eI409VZSqqND+4UNnmzLVdPj9FqFJNPqBZFve4w==}

hasBin: true

dependencies:

- glob: 7.2.0

dev: true

```

/roarr/2.15.4:
  resolution: {integrity: sha512-
CHhPh+UNHD2GTXNYhPWLnU8ONHdI+5DI+4EYIAOaiD63rHeYlZvyh8P+in5999TTSFgUYuKUAjzRI4mdh/
p+2A==}
  engines: {node: '>=8.0'}
  dependencies:
    boolean: 3.1.4
    detect-node: 2.1.0
    globalthis: 1.0.2
    json-stringify-safe: 5.0.1
    semver-compare: 1.0.0
    sprintf-js: 1.1.2
  dev: true

/rollup/2.66.1:
  resolution: {integrity: sha512-
crSgLhSkLMnKr4s9iZ/1qJCplgAgrRY+igWv8KhG/AjKOJ0YX/WpmANyn8oxrw+zenF3BXWDL7Xl/QZISH+7
w==}
  engines: {node: '>=10.0.0'}
  hasBin: true
  optionalDependencies:
    fsevents: 2.3.2
  dev: true

/run-async/2.4.1:
  resolution: {integrity: sha512-
tvVnVv01b8c1RrA6Ep7JkStj85Guv/YrMcwqYQnwjsAS2cTmmPGBBjAjpCW7RrSodNSoE2/qg9O4bceNvUuDg
Q==}
  engines: {node: '>=0.12.0'}
  dev: true

/run-parallel/1.2.0:
  resolution: {integrity: sha512-
5l4VyZR86LZ/ldxZTR6jqL8AFE2S0IFLMP26AbjsLVADxHdhB/c0GUsH+y39UfCi3dzz8OlQuPmnaJOMoDHQ
BA==}
  dependencies:
    queue-microtask: 1.2.3
  dev: true

/rxjs/7.5.2:
  resolution: {integrity: sha512-
PwDt186XaL3QN5qXj/H9DGyHhP3/RYYgZZwqBv9Tv8rsAaiwFH1IsJJlcgD37J7UW5a6O67qX0KWKS3/pu0m
4w==}
  dependencies:
    tslib: 2.3.1
  dev: true

```

```

/sade/1.8.1:
  resolution: {integrity: sha512-
  xal3CZX1Xlo/k4ApwCFrHVACi9fBqJ7V+mwhBsuf/1IOKbBy098Fex+Wa/5QMubw09pSZ/u8EY8PWgevJsXp1
  A==}
  engines: {node: '>=6'}
  dependencies:
    mri: 1.2.0
  dev: true

/safe-buffer/5.1.2:
  resolution: {integrity: sha512-
  Gd2UZBJDkXlY7GbJxfsE8/nvKkUEU1G38c1siN6QP6a9PT9MmHB8GnpScSmMJSofF8LOIrt8ud/wPtojys4G6+g
  ==}
  dev: true

/safe-buffer/5.2.1:
  resolution: {integrity: sha512-
  rp3So07KcdmmKbGvgaNxQsJr7bGVSVk5S9Eq1F+ppbRo70+YeaDxkw5Dd88NPN+GD6bjnYm2VuPuCXmpuYv
  mCXQ==}
  dev: true

/safer-buffer/2.1.2:
  resolution: {integrity: sha512-
  YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHg1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcQriUtg=
  =}
  dev: true

/sander/0.5.1:
  resolution: {integrity: sha1-dB4kXiMfB8r7b98PEzrfahalAq0=}
  dependencies:
    es6-promise: 3.3.1
    graceful-fs: 4.2.9
    mkdirp: 0.5.5
    rimraf: 2.7.1
  dev: true

/seek-bzip/1.0.6:
  resolution: {integrity: sha512-
  e1QtP3YL5tWww8uKaOCQ18UxIT2laNBXHjV/S2WYCiK4udiv8lkG89KRIOcjUagnAmCBurjF4zEVX2ByBbnC
  jQ==}
  hasBin: true
  dependencies:
    commander: 2.20.3
  dev: true

/semver-compare/1.0.0:
  resolution: {integrity: sha1-De4hahyUGrN+nvsXiPavxf9VN/w=}
  dev: true

```

```

/semver-diff/3.1.1:
  resolution: {integrity: sha512-
GX0Ix/CJcHyB8c4ykpHGIAvLyOwOobtM/8d+TQkAd81/bEjgPHrfba41Vpesr7jX/t8Uh+R3EX9eAS5be+jQYg==
}
  engines: {node: '>=8'}
  dependencies:
    semver: 6.3.0
  dev: true

/semver-regex/2.0.0:
  resolution: {integrity: sha512-
mUdIBBvdn0PLOeP3TEkMH7HHeUP3GjsXCwKarjv/kGmUFOYg1VqEemKhoQpWMu6X2I8kHeuVdGibLGkV
K+/5Qw==}
  engines: {node: '>=6'}
  dev: true

/semver-truncate/1.1.2:
  resolution: {integrity: sha1-V/Qd5pcHpicJp+AQs6IRcQnqR+g=}
  engines: {node: '>=0.10.0'}
  dependencies:
    semver: 5.7.1
  dev: true

/semver/5.7.1:
  resolution: {integrity: sha512-
sauaDf/PZdVgrLTNYHRtpXa1iRiKcaebiKQ1BJdpQlWH2lCvexQdX55snPFyK7QzpuudqbCI0qXFfOasHdyNDGQ
==}
  hasBin: true
  dev: true

/semver/6.3.0:
  resolution: {integrity: sha512-
b39TBaTSfV6yBrapU89p5fKekE2m/NwnDocOVruQFS1/veMgdzuPcnOM34M6CwxW8jH/lxEa5rBoDeUwu5HH
Tw==}
  hasBin: true
  dev: true

/semver/7.3.5:
  resolution: {integrity: sha512-
PoeGJYh8HK4BTO/a9Tf6ZG3veo/A7ZVsYrSA6J8ny9nb3B1VrpkuN+z9OE5wfE5p6H4LchYZsegiQgbJD94ZFQ
==}
  engines: {node: '>=10'}
  hasBin: true
  dependencies:
    lru-cache: 6.0.0
  dev: true

```

```
/serialize-error/7.0.1:
  resolution: {integrity: sha512-8I8TjW5KMOKsZQTvoxjuSIa7foAwPWGOts+6o7sgjz41/qMD9VQHEDxi6PBvK2l0MXUmqZyNpUK+T2tQaaE
lvw==}
  engines: {node: '>=10'}
  dependencies:
    type-fest: 0.13.1
  dev: true

/set-blocking/2.0.0:
  resolution: {integrity: sha1-BF+XgtARrppoA93TgrJDkrPYkPc=}
  dev: true

/sharp/0.28.3:
  resolution: {integrity: sha512-21GEP45Rmr7q2qcmdnjDkNP04Ooh5v0laGS5FDpojOO84D1DJwUijLiSq8XNNM6e8aGXYtoYRh3sVNdm8Nod
MA==}
  engines: {node: '>=10'}
  requiresBuild: true
  dependencies:
    color: 3.2.1
    detect-libc: 1.0.3
    node-addon-api: 3.2.1
    prebuild-install: 6.1.4
    semver: 7.3.5
    simple-get: 3.1.0
    tar-fs: 2.1.1
    tunnel-agent: 0.6.0
  dev: true

/shebang-command/1.2.0:
  resolution: {integrity: sha1-RKrGW2lbAzmJaMOfNj/uXer98eo=}
  engines: {node: '>=0.10.0'}
  dependencies:
    shebang-regex: 1.0.0
  dev: true

/shebang-command/2.0.0:
  resolution: {integrity: sha512-kHxr2zZpYtdmrN1qDjrrX/Z1rR1kG8Dx+gkpK1G4eXmvXswmcE1hTWBWWYUzlraYw1/yZp6YuDY77YtvbN0d
mDA==}
  engines: {node: '>=8'}
  dependencies:
    shebang-regex: 3.0.0
  dev: true

/shebang-regex/1.0.0:
  resolution: {integrity: sha1-2kL0l0DAAtC2yypcoVxyxkMmO/qM=}
```

```

engines: {node: '>=0.10.0'}
dev: true

/shebang-regex/3.0.0:
  resolution: {integrity: sha512-
7++dFhtcx3353uBaq8DDR4NuxBetBzC7ZQOhmTQInHEd6bSrXdiEyzCvG07Z44UYdLShWUyXt5M/yhz8ekcb1
A==}
  engines: {node: '>=8'}
  dev: true

/signal-exit/3.0.6:
  resolution: {integrity: sha512-
sDl4qMFpijcGw22U5w63KmD3cZJfBuFlVNbVMKje2keoKML7X2UzWbc4XrmEbDwg0NXJc3yv4/ox7b+JWb5
7kQ==}
  dev: true

/simple-concat/1.0.1:
  resolution: {integrity: sha512-
cSFtAPtRhIjv69IK0hTVZQ+OfE9nePi/rtJmw5UjHeVyVroEqJXP1sFztKUy1qU+ xvz3u/sfYJLa947b7nAN2Q==}
  dev: true

/simple-get/3.1.0:
  resolution: {integrity: sha512-
bCR6cP+aTdScaQCnQKbPKtJOKDp/hj9EDLJo3Nw4y1QksqaovlW/bnptB6/c1e+qmNIDHRK+oXFDdEqBT8Wz
UA==}
  dependencies:
    decompress-response: 4.2.1
    once: 1.4.0
    simple-concat: 1.0.1
  dev: true

/simple-swizzle/0.2.2:
  resolution: {integrity: sha1-pNprY1/8zMoz9w0Xy5JZLeleVXo=}
  dependencies:
    is-arrayish: 0.3.2
  dev: true

/slash/3.0.0:
  resolution: {integrity: sha512-
g9Q1haeby36OSStwb4ntCGGgAKsaVSjQ68fBxoQcutl5fS1vuY18H3wSt3jFyFtrkx+Kz0V1G85A4MyAdDMi2Q=
=}
  engines: {node: '>=8'}
  dev: true

/slash/4.0.0:
  resolution: {integrity: sha512-
3dOsAHXXUkQTpOYcoAxLIorMTp4gIQr5IW3iVb7A7lFIp0VHhnynm9izx6TssdrIcVIESAIvjtnO2K8bg+Coew
==}

```

```

engines: {node: '>=12'}
dev: true

/sorcery/0.10.0:
  resolution: {integrity: sha1-iukK19fLBfxZ8asMY3hF1cFaUrc=}
  hasBin: true
  dependencies:
    buffer-crc32: 0.2.13
    minimist: 1.2.5
    sander: 0.5.1
    sourcemap-codec: 1.4.8
  dev: true

/sort-keys-length/1.0.1:
  resolution: {integrity: sha1-nLb09OnkgVWmqgZx7dM2/xR5oYg=}
  engines: {node: '>=0.10.0'}
  dependencies:
    sort-keys: 1.1.2
  dev: true

/sort-keys/1.1.2:
  resolution: {integrity: sha1-RBttTTRnmPG05J6JIK37oOVD+a0=}
  engines: {node: '>=0.10.0'}
  dependencies:
    is-plain-obj: 1.1.0
  dev: true

/sort-keys/2.0.0:
  resolution: {integrity: sha1-ZYU1WEhh7JfXMNbpQYIuH1ZoQSg=}
  engines: {node: '>=4'}
  dependencies:
    is-plain-obj: 1.1.0
  dev: true

/source-map-js/1.0.2:
  resolution: {integrity: sha512-R0XvVJ9WusLiQTEiGCMiCCMplcCkIwwR11mOSD9CR5u+IXYdiseeEuXCVAjS54zqwkLcPNnmU4OeJ6tUrWhDw==}
  engines: {node: '>=0.10.0'}
  dev: true

/source-map/0.7.3:
  resolution: {integrity: sha512-CkCj6giN3S+n9qrYiBTX5gystlENnRW5jZeNLHpe6aue+SrHcG5VYwujhW9s4dY31mEGsxBDrHR6oI69fTXsaQ==}
  engines: {node: '>= 8'}
  dev: true

```

```

/sourcemap-codec/1.4.8:
  resolution: {integrity: sha512-
9NykojV5Uih4lgo5So5dtw+f0JgJX30KCNi8gwhz2J9A15wD0Ml6tjHKwf6fTSa6fAdVBdZeNOs9eJ71qCk8vA==
}
  dev: true

/spdx-correct/3.1.1:
  resolution: {integrity:
sha512-
cOYcUWwhCuHCXi49RhFRCyJEK3iPj1Ziz9DpViV3tbZOwXD49QzIN3MpOLJNxb2qww2lJJZaKMVw9qNi4jT
C0w==}
  dependencies:
    spdx-expression-parse: 3.0.1
    spdx-license-ids: 3.0.11
  dev: true

/spdx-exceptions/2.3.0:
  resolution: {integrity: sha512-
/tTrYOC7PPI1nUAgx34hUpqXuyJG+DTHJTnIULG4rDygi4xu/tfgmq1e1cIRwRzwZgo4NLySi+ricLkZkw4i5A==
}
  dev: true

/spdx-expression-parse/3.0.1:
  resolution: {integrity: sha512-
cbqHunsQWnJNE6KhVSMsMeH5H/L9EpymbzqTQ3uLwNCLZ1Q481oWaofqH7nO6V07xlXwY6PhQdQ2IedWx
/ZK4Q==}
  dependencies:
    spdx-exceptions: 2.3.0
    spdx-license-ids: 3.0.11
  dev: true

/spdx-license-ids/3.0.11:
  resolution: {integrity: sha512-
Ctl2BrFiM0X3MANYgj3CkygxhRmr9mi6xhejbdO960nF6EDJApTYpn0BQnDKlnNBULKiCN1n3w9EBkHK8Z
Wg+g==}
  dev: true

/sprintf-js/1.1.2:
  resolution: {integrity: sha512-
VE0SOVEHck7Qc8ulkWw3ntAzXuqf7S2lvwQaDLRnUeIEaKNQJzV6BwmLKHOqT61aGhfUMrXeaBk+oDGCz
vhcug==}
  dev: true

/squeak/1.3.0:
  resolution: {integrity: sha1-MwRQN7ZDiLVnZ0uEMipIIQc5FsM=}
  engines: {node: '>=0.10.0'}
  dependencies:
    chalk: 1.1.3

```



```

    console-stream: 0.1.1
    lpad-align: 1.1.2
    dev: true

/strict-uri-encode/1.1.0:
  resolution: {integrity: sha1-J5siXfHVgrH1TmWt3UNS4Y+qBxM=}
  engines: {node: '>=0.10.0'}
  dev: true

/string-width/1.0.2:
  resolution: {integrity: sha1-EYvfW4zcUaKn5w0hHgfiSLmxB9M=}
  engines: {node: '>=0.10.0'}
  dependencies:
    code-point-at: 1.1.0
    is-fullwidth-code-point: 1.0.0
    strip-ansi: 3.0.1
  dev: true

/string-width/4.2.3:
  resolution: {integrity: sha512-CxrO1AJ58e962X13oVq4a6hmrm8ZT6PKJ4HRW4ohxMOsUKE10306zJPBnB8jZ8L5PgeNeuh104dr3aKnw=}
  engines: {node: '>=8'}
  dependencies:
    emoji-regex: 8.0.0
    is-fullwidth-code-point: 3.0.0
    strip-ansi: 6.0.1
  dev: true

/string_decoder/1.1.1:
  resolution: {integrity: sha512-n/ShnvDi6FHbbVfviro+WojiFzv+s8MPMHBczVePfUpDJLwoLT0ht1l4YwBCbi8pJAveEEdnkHyPyTP/mzRfwg==}
  dependencies:
    safe-buffer: 5.1.2
    dev: true

/string_decoder/1.3.0:
  resolution: {integrity: sha512-wWxaopEsABU1XfkM8A+j0+85JAGppt16cr1Whg6KIbb4okU6Mql6BOj+uup/wKeA==}
  dependencies:
    safe-buffer: 5.2.1
    dev: true

/strip-ansi/3.0.1:
  resolution: {integrity: sha1-ajhfuI9IS1f8F0Oiq+UJ43GPc8=}

```

engines: {node: '>=0.10.0'}

dependencies:

ansi-regex: 2.1.1

dev: true

/strip-ansi/6.0.1:

resolution: {integrity: sha512-

Y38VPSHCqkFrCpFnQ9vuSXMquuv5oXOKpGeT6aGrr3o3Gc9AlVa6JBfUSOCnbxGGZF+/0ooI7KrPuUSztUdU5A==}

engines: {node: '>=8'}

dependencies:

ansi-regex: 5.0.1

dev: true

/strip-bom/2.0.0:

resolution: {integrity: sha1-YhmoVhZSBJHzV4i9vxRHqZx+aw4=}

engines: {node: '>=0.10.0'}

dependencies:

is-utf8: 0.2.1

dev: true

/strip-dirs/2.1.0:

resolution: {integrity: sha512-

JOCxOeKLM2CAS73y/U4ZeZPTkE+gNVCzKt7Eox84Iej1LT/2pTWYpZKJuxwQpvX1LiZb1xokNR7RLfuBAa7T3g==}

dependencies:

is-natural-number:

4.0.1

dev: true

/strip-eof/1.0.0:

resolution: {integrity: sha1-u0P/VZim6wXYm1n80SnJgzE2Br8=}

engines: {node: '>=0.10.0'}

dev: true

/strip-indent/1.0.1:

resolution: {integrity: sha1-DHlipq3vp7vUrDZkYKY4VSrhoKI=}

engines: {node: '>=0.10.0'}

hasBin: true

dependencies:

get-stdin: 4.0.1

dev: true

/strip-indent/3.0.0:

resolution: {integrity: sha512-

laJTa3Jb+VQpaC6DseHhF7dXVqHTfJPCRDaeEbid/drOhgitgYku/letMUqOXFoWV0zIIUbjpdH2t+tYj4bQMRQ==}

engines: {node: '>=8'}

dependencies:

min-indent: 1.0.1

dev: true

/strip-json-comments/2.0.1:

resolution: {integrity: sha1-PFMZQukIwml8DsNEhYwobHygpggo=}

engines: {node: '>=0.10.0'}

dev: true

/strip-outer/1.0.1:

resolution: {integrity: sha512-

k55yxKHwaXnpYGsOzg4Vl8+tDrWylxDEpknGjhTiZB8dFRU5rTo9CAzeycivxV3s+zlTKwrs6WxMxR95n26kwg==}

engines: {node: '>=0.10.0'}

dependencies:

escape-string-regexp: 1.0.5

dev: true

/strtok3/6.2.4:

resolution: {integrity:

sha512-

GO8lCFF9GmFDvqduIspUBwCzCbqzegyVKIsSymcMgiZKeCfrN9SowtUoi8+b59WZMAjIzVZic/Ft97+pynR3Iw==}

engines: {node: '>=10'}

dependencies:

'@tokenizer/token': 0.3.0

peek-readable: 4.0.2

dev: true

/supports-color/2.0.0:

resolution: {integrity: sha1-U10EXOa2Nj+kARcIRimZXp3zJMc=}

engines: {node: '>=0.8.0'}

dev: true

/supports-color/7.2.0:

resolution: {integrity: sha512-

qpCAvRI9stuOHveKsn7HncJRvv501qlacKzQlO/+Lwxc9+0q2wLyyv4Dfvt80/DPn2pqOBsJdDiogXGR9+OvwRw==}

engines: {node: '>=8'}

dependencies:

has-flag: 4.0.0

dev: true

/supports-preserve-symlinks-flag/1.0.0:

resolution: {integrity: sha512-

ot0WnXS9fgdkgIcePe6RHNk1WA8+muPa6cSjeR3V8K27q9BB1rTE3R1p7Hv0z1ZyAc8s6Vvv8DIyWf681MAtoW==}

engines: {node: '>= 0.4'}

```

dev: true

/svelte-check/2.3.0_svelte@3.46.3:
  resolution: {integrity: sha512-
SBKdJyUmxxPmJf/ZPqDSQOoa9JzOcgEpV7u3UaYcgVn7fA0veZ3FA5JgLU8KYtf84Gp6guBVcrC7XKLjJa5SX
Q==}
  hasBin: true
  peerDependencies:
    svelte: ^3.24.0
  dependencies:
    chokidar: 3.5.3
    fast-glob: 3.2.11
    import-fresh: 3.3.0
    minimist: 1.2.5
    picocolors: 1.0.0
    sade: 1.8.1
    source-map: 0.7.3
    svelte: 3.46.3
    svelte-preprocess: 4.10.2_svelte@3.46.3+typescript@4.5.5
    typescript: 4.5.5
  transitivePeerDependencies:
    - '@babel/core'
    - coffeescript
    - less
    - node-sass
    - postcss
    - postcss-load-config
    - pug
    - sass
    - stylus
    - sugarss
dev: true

/svelte-hmr/0.14.9_svelte@3.46.3:
  resolution: {integrity: sha512-
bKE9+4qb4sAnA+TKHiYurUl970rjA0XmlP9TEP7K/ncyWz3m81kA4HOgmlZK/7irGK7gzZlaPDI3cmf8fp/+tg==
}
  peerDependencies:
    svelte: '>=3.19.0'
  dependencies:
    svelte: 3.46.3
dev: true

/svelte-preprocess/4.10.2_svelte@3.46.3+typescript@4.5.5:
  resolution: {integrity: sha512-
aPpkCreSo8EL/y8kJSa1trhiX0oyAtTjlNNM7BNjRAsMJ8Yy2LtqHt0zyd4pQPXt+D4PzbO3qTjjio3kwOxDIA==}
  engines: {node:

```

```
'>= 9.11.2'}
requiresBuild: true
peerDependencies:
  '@babel/core': ^7.10.2
  coffeescript: ^2.5.1
  less: ^3.11.3 || ^4.0.0
  node-sass: '*'
  postcss: ^7 || ^8
  postcss-load-config: ^2.1.0 || ^3.0.0
  pug: ^3.0.0
  sass: ^1.26.8
  stylus: ^0.55.0
  sugarss: ^2.0.0
  svelte: ^3.23.0
  typescript: ^4.5.2
peerDependenciesMeta:
  '@babel/core':
    optional: true
  coffeescript:
    optional: true
  less:
    optional: true
  node-sass:
    optional: true
  postcss:
    optional: true
  postcss-load-config:
    optional: true
  pug:
    optional: true
  sass:
    optional: true
  stylus:
    optional: true
  sugarss:
    optional: true
  typescript:
    optional: true
dependencies:
  '@types/pug': 2.0.6
  '@types/sass': 1.43.1
  detect-indent: 6.1.0
  magic-string: 0.25.7
  sorcery: 0.10.0
  strip-indent: 3.0.0
  svelte: 3.46.3
  typescript: 4.5.5
dev: true
```

```

/svelte/3.46.3:
  resolution: {integrity: sha512-
mTOXvv74CVQqJHqoIZDprVfRKVVmYNadXP0VKnOEa54223kLGCr1nMrifS4Zx29qMt/xRB38Eq1D7dDH/f
M8fQ==}
  engines: {node: '>= 8'}
  dev: true

/tar-fs/2.1.1:
  resolution: {integrity: sha512-
V0r2Y9scmbDRLCNex/+hYzvp/zyYjvFbHPNgVTKfQvVrb6guiE/fxP+XbLDNR011utopbkex2nM4dHNV6GDsng
==}
  dependencies:
    chownr: 1.1.4
    mkdirp-classic: 0.5.3
    pump: 3.0.0
    tar-stream: 2.2.0
  dev: true

/tar-stream/1.6.2:
  resolution: {integrity: sha512-
rzS0heiNf8Xn7/mpdSVVSMAWAoy9bfb1WOTYC78Z0UQKeKa/CWS8FOq0lKGN8DWKAn9gxjCvMLYc5PG
XYIK2A==}
  engines: {node: '>= 0.8.0'}
  dependencies:
    bl: 1.2.3
    buffer-alloc: 1.2.0
    end-of-stream: 1.4.4
    fs-constants: 1.0.0
    readable-stream: 2.3.7
    to-buffer: 1.1.1
    xtend: 4.0.2
  dev: true

/tar-stream/2.2.0:
  resolution: {integrity: sha512-
ujeqbceABgwMZxEJnk2HDY2DlnUZ+9oEcb1KzTVfYHio0UE6dG71n60d8D2I4qNvleWrrXpmjpt7vZeF1LnMZ
Q==}
  engines: {node: '>=6'}
  dependencies:
    bl: 4.1.0
    end-of-stream: 1.4.4
    fs-constants: 1.0.0
    inherits: 2.0.4
    readable-stream: 3.6.0
  dev: true

/temp-dir/1.0.0:

```

resolution: {integrity: sha1-CnwOom06Oa+n4OvqnB/AvE2qAR0=}
engines: {node: '>=4'}
dev: true

/tempfile/2.0.0:

resolution: {integrity: sha1-awRGhWqbERTRhW/8vlCczLCXcmU=}
engines: {node: '>=4'}
dependencies:
 temp-dir: 1.0.0
 uuid: 3.4.0
dev: true

/through/2.3.8:

resolution: {integrity: sha1-DdTJ/6q8NXlgsbckEV1+Doai4fU=}
dev: true

/timed-out/4.0.1:

resolution: {integrity: sha1-8y6srFoXW+ol1/q1Zas+2HQe9W8=}
engines: {node: '>=0.10.0'}
dev: true

/tmp/0.0.33:

resolution: {integrity: sha512-
jRCJlojKnZ3addrTOjdIqoRuPEKBvNXcGYqzO6zWZX8KfKEpnGY5jfggJQ3EjKuu8D4bJRr0y+cYJFmYbImXG
w==}
engines: {node: '>=0.6.0'}
dependencies:
 os-tmpdir: 1.0.2
dev: true

/to-buffer/1.1.1:

resolution:
{integrity: sha512-
lx9B5iv7msuFYE3dytT+KE5tap+rNYw+K4jVkb9R/asAb+pbBSM17jtunHplhBe6RRJdZx3Pn2Jph24O32mOVg=
=
dev: true

/to-readable-stream/1.0.0:

resolution: {integrity: sha512-
Iq25XBt6zD5npPhlLVXGFN3/gyR2/qODcKNNyTMd4vbm39HUaOiAM4PMq0eMVC/Tkxz+Zjdsc55g9yyz+Yq0
0Q==}
engines: {node: '>=6'}
dev: true

/to-regexp-range/5.0.1:

resolution: {integrity: sha512-
65P7iz6X5yEr1cwgcgVQxbbIw7Uk3gOy5dIdtZ4rDveLqhrdJP+Li/Hx6tyK0NEb+2GCyneCMJiGqrADCSNk8sQ==
}

engines: {node: '>=8.0'}
dependencies:
 is-number: 7.0.0
dev: true

/token-types/4.1.1:
 resolution: {integrity: sha512-hD+QyuUAYI2spzsl0B7gf/jJ2ggR4RjkAo37j3StuePhApJUwcWDjnHDOFdIWYSwNR28H14hpwm4EI+V1Ted1w==}
 engines: {node: '>=10'}
 dependencies:
 '@tokenizer/token': 0.3.0
 ieee754: 1.2.1
 dev: true

/trim-newlines/1.0.0:
 resolution: {integrity: sha1-WIeWa7WCpFA6QetST301ARgVphM=}
 engines: {node: '>=0.10.0'}
 dev: true

/trim-repeated/1.0.0:
 resolution: {integrity: sha1-42RqLqTokTEr9+rObPsFOAvAHCE=}
 engines: {node: '>=0.10.0'}
 dependencies:
 escape-string-regexp: 1.0.5
 dev: true

/tslib/2.3.1:
 resolution: {integrity: sha512-77EbyPPpMz+FRFRuAFlWMtmgUWGe9UOG2Z25NqCwiljRhOf5iKGuzSe5P2w1laq+FkRy4p+PCuVkJSGkzTEKVw==}
 dev: true

/tunnel-agent/0.6.0:
 resolution: {integrity: sha1-J6XeoGs2sEoKmwZ3SykIaPD8QP0=}
 dependencies:
 safe-buffer: 5.2.1
 dev: true

/type-fest/0.13.1:
 resolution: {integrity: sha512-34R7HTnG0XIJcBSn5XhDd7nNFPRcXYRZrBB2O2jdKqYODldSzBAqzsWoZYYvduky73toYS/ESqxPvkDf/F0XMg==}
 engines: {node: '>=10'}
 dev: true

/type-fest/0.20.2:


```

    resolution: {integrity: sha512-
Ne+eE4r0/iWnpAxD852z3A+N0Bt5RN//NjJwRd2VFHEmrywxf5vsZlh4R6lixl6B+wz/8d+maTSAkN1FIkI3LQ==
}
    engines: {node: '>=10'}
    dev: true

/type-fest/0.21.3:
  resolution: {integrity: sha512-
t0rzBq87m3fVcduHdUFhKmyyX+9eo6WQjZvf51Ea/M0Q7+T374Jp1aUiYUl0GKxp8M/OETVHSDvmkyPgvX+
X2w==}
  engines: {node: '>=10'}

  dev: true

/typedarray-to-buffer/3.1.5:
  resolution: {integrity: sha512-
zdu8XMNEDepKKR+XYOXAVPtWui0ly0NtohUscw+UmaHiAWT8hrV1rr//H6V+0DvJ3OQ19S979M0laLfX8rm
82Q==}
  dependencies:
    is-typedarray: 1.0.0
  dev: true

/typescript/4.5.5:
  resolution: {integrity: sha512-
TCTIul70LyWe6IJWT8QSYeA54WQe8EjQFU4wY52Fasj5UKx88LNYKCgBEHcOMOrFF1rKGbD8v/xcNWVU
q9SymA==}
  engines: {node: '>=4.2.0'}
  hasBin: true
  dev: true

/unbzip2-stream/1.4.3:
  resolution: {integrity: sha512-
mlExGW4w71ebDJviH16lQLtZS32VKqsSfk80GCfUlwT/4/hNRFsoscF/c++9xinkMzECL1uL9DDwXqFWkruPg
==}
  dependencies:
    buffer: 5.7.1
    through: 2.3.8
  dev: true

/unique-string/2.0.0:
  resolution: {integrity: sha512-
uNaairEPvpZWSgzwsPGtU2zVSTrn/8L5q/IexZmH0eH6SA73CmAA5U4GwORTxQAZs95TAXLNqeLoPPNO5g
ZfWg==}
  engines: {node: '>=8'}
  dependencies:
    crypto-random-string: 2.0.0
  dev: true

```

```

/universalify/2.0.0:
  resolution: {integrity: sha512-
hAZsKq7Yy11Zu1DE0OzWjw7nnLZmJZYTDZyEFHZdUhV8FkH5MCfoU1XMaxXovpyW5nq5scPqq0ZDP9Z
yl04oQ==}
  engines: {node: '>= 10.0.0'}
  dev: true

/update-notifier/5.1.0:
  resolution: {integrity: sha512-
ItIICHbeMh9GqUy31hFPrD1kcuZ3rpxDZbf4KUDavXwS0bW5m7SLbDQpGX3UYr072cbrF5hFU3r5tUsPwjfH
w==}
  engines: {node: '>=10'}
  dependencies:
    boxen: 5.1.2
    chalk: 4.1.2
    configstore: 5.0.1
    has-yarn: 2.1.0
    import-lazy: 2.1.0
    is-ci: 2.0.0
    is-installed-globally: 0.4.0
    is-npm: 5.0.0
    is-yarn-global: 0.3.0
    latest-version: 5.1.0
    pupa: 2.1.1
    semver: 7.3.5
    semver-diff: 3.1.1
    xdg-basedir: 4.0.0
  dev: true

/url-parse-lax/1.0.0:
  resolution: {integrity: sha1-evjzA2Rem9eaJy56FKxovAYJ2nM=}
  engines: {node: '>=0.10.0'}
  dependencies:
    prepend-http: 1.0.4
  dev: true

/url-parse-lax/3.0.0:
  resolution: {integrity: sha1-FrXK/Afb42dsGxmZF3gj1lA6yww=}
  engines: {node: '>=4'}
  dependencies:
    prepend-http: 2.0.0
  dev: true

/url-to-options/1.0.1:
  resolution: {integrity: sha1-FQWgOiiaSMvXpDTvuu7FBV9WM6k=}
  engines: {node: '>= 4'}
  dev: true

```

```

/util-deprecate/1.0.2:
  resolution: {integrity: sha1-RQ1Nyfpw3nMnYvvS1KKJgUGaDM8=}
  dev: true

/uuid/3.4.0:
  resolution: {integrity: sha512-HjSDRw6gZE5JMggctHBcjVak08+KEVhSIiDzFnT9S9aegmp85S/bReBVTb4QTFaRNptJ9kuYaNhnbnEOkbKb/A==}
  deprecated: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
  hasBin: true
  dev: true

/validate-npm-package-license/3.0.4:
  resolution: {integrity: sha512-DpKm2Ui/xN7/HQKCTpZxoRWBhZ9Z0kqtygG8XCgNQ8ZlDnxuQmWhj566j8fN4Cu3/JmbhsDo7fcAJq4s9h27Ew==}
  dependencies:
    spdx-correct: 3.1.1
    spdx-expression-parse: 3.0.1
  dev: true

/vite/2.7.13:
  resolution: {integrity: sha512-Mq8et7f3aK0SgSxjDNfOAimZGw9XryfHRa/uV0jseQSilg+KhYDSoNb9h1rknOy6SuMkvNDLKCYAYYUMCE+IgQ==}
  engines: {node: '>=12.2.0'}
  hasBin: true
  peerDependencies:
    less: '*'
    sass: '*'
    stylus: '*'
  peerDependenciesMeta:
    less:
      optional: true
    sass:
      optional: true
    stylus:
      optional: true
  dependencies:
    esbuild: 0.13.15
    postcss: 8.4.5
    resolve: 1.22.0
    rollup: 2.66.1
  optionalDependencies:
    fsevents: 2.3.2
  dev: true

```

```

/wcwidth/1.0.1:
  resolution: {integrity: sha1-8LDc+RW8X/FSivrbLA4XtTLaL+g=}
  dependencies:
    defaults: 1.0.3
  dev: true

/which/1.3.1:
  resolution: {integrity: sha512-HxJdYWq1MTIQbJ3nw0cqssHoTNU267KlrDuGZ1WYlxDStUtKUhOaJmh112/TZmHxxUfuJqPXSOM7tDyas0O
  SIQ==}
  hasBin: true
  dependencies:
    isexe: 2.0.0
  dev: true

/which/2.0.2:
  resolution: {integrity: sha512-BLI3Tl1TW3Pvl70l3yq3Y64i+awpwxXqsGBYWkkqMtnbXgrMD+yj7rhW0kuEDxzJaYXGjEW5ogapKNMEKNM
  jibA==}
  engines: {node: '>= 8'}
  hasBin: true
  dependencies:
    isexe: 2.0.0
  dev:
  true

/wide-align/1.1.5:
  resolution: {integrity: sha512-eDMORYaPNZ4sQIuuYPdHdQvf4gyCF9rEEV/yPxGfwPkRodwEgiMUUXTx/dex+Me0wxx53S+NgUHaP7y3M
  Gldmg==}
  dependencies:
    string-width: 1.0.2
  dev: true

/widest-line/3.1.0:
  resolution: {integrity: sha512-NsmoXalsWVDMGupxZ5R08ka9flZjjiLvHVAWYOKtiKM8ujtZWjr9cRffak+uSE48+Ob8ObalXpwyeUiyDD6QFg
  g==}
  engines: {node: '>=8'}
  dependencies:
    string-width: 4.2.3
  dev: true

/with-open-file/0.1.7:
  resolution: {integrity: sha512-ecJS2/oHtESJ1t3ZfMI3B7KIDKyfN0O16miWxdn30zdh66Yd3LsRfFebXZXq6GU4xfxLf6nVxp9kIqElb5fqczA==}
  engines: {node: '>=6'}
  dependencies:

```

p-finally: 1.0.0

p-try: 2.2.0

pify: 4.0.1

dev: true

/wrap-ansi/7.0.0:

resolution: {integrity: sha512-YVGIj2kamLSTxw6NsZjoBxfSwsn0ycdesmc4p+Q21c5zPuZ1pl+NfxVdxPtdHvmNVOQ6XSYG4AUtyt/Fi7D16Q==}

engines: {node: '>=10'}

dependencies:

ansi-styles: 4.3.0

string-width: 4.2.3

strip-ansi: 6.0.1

dev: true

/wrappy/1.0.2:

resolution: {integrity: sha1-tSQ9jz7BqjXxNkYFvA0QNuMKtp8=}

dev: true

/write-file-atomic/3.0.3:

resolution: {integrity: sha512-AvHcyZ5JnSfQ3ioSjyrBkhH9yW4m7Ayk8/9My/DD9onKeu/94fwrMocemO2QAJFAlnnDN+ZDS+ZjAR5ua1/PV/Q==}

dependencies:

imurmurhash: 0.1.4

is-typedarray: 1.0.0

signal-exit: 3.0.6

typedarray-to-buffer: 3.1.5

dev: true

/xdg-basedir/4.0.0:

resolution: {integrity: sha512-PSNhEJDejZYV7h50BohL09Er9VaIefr2LMAf3OEmpCkjOi34eYyQYAXUTjEQtZJTKcF0E2UKTh+osDLsgNim9Q==}

engines: {node: '>=8'}

dev: true

/xtend/4.0.2:

resolution: {integrity: sha512-LKYU1iAXJXUgAXn9URjju+MWhyUXHsvfp7mcuYm9dSUKK0/CjtrUwFAXD82/mCWbtLsGjFIad0wIsod4zrTAEQ==}

engines: {node: '>=0.4'}

dev: true

/yallist/2.1.2:

resolution: {integrity: sha1-HBH5IY8HYImkfdUS+TxmmaaoHVI=}

dev: true

```

/yallist/4.0.0:
  resolution: {integrity: sha512-
3wdGidZyq5PB084XLES5TpOSRA3wjXAlIWMhum2kRcv/41Sn2emQ0dycQW4uZXLejwKvg6EsvbdlVL+FYEc
t7A==}
  dev: true

/yaubl/2.10.0:
  resolution: {integrity: sha1-x+sXyT4RLLEIb6bY5R+wZnt5pfk=}
  dependencies:
    buffer-crc32: 0.2.13
    fd-slicer: 1.1.0
  dev: true

/zopfli-png-bin/6.0.1:
  resolution: {integrity: sha512-
+aybvXv/xafL6I67uSH5yLHrSy4/OaSOV9tniw4yZFIHpINXUcctVHE/WzHxOONrL2GHZJ8Fd4iDrNyaS6TVbg=
=}
  engines: {node: '>=10'}
  hasBin: true
  requiresBuild: true
  dependencies:
    bin-build: 3.0.0
    bin-wrapper: 4.1.0
    logalot: 2.1.0
  dev: true

```

Found in path(s):

* /freethinkel-yamux-v0-1-1-0-g502720e-1-tar-gz/freethinkel-yamux-502720e/pnpm-lock.yaml

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

```

*/@font-face{ font-family:tabler-icons;font-style:normal;font-weight:400;src:url(fonts/tabler-
icons.eot);src:url(fonts/tabler-icons.eot?#iefix) format("embedded-opentype"),url(fonts/tabler-icons.woff2)
format("woff2"),url(fonts/tabler-icons.woff) format("woff"),url(fonts/tabler-icons.ttf)
format("truetype"),url(fonts/tabler-icons.svg#tabler-icons) format("svg")}@media screen and (-webkit-min-device-
pixel-ratio:0){@font-face{ font-family:tabler-icons;src:url(fonts/tabler-icons.svg#tabler-icons)
format("svg")}}.ti{font-family:tabler-icons!important;speak:none;font-style:normal;font-weight:400;font-
variant:normal;text-transform:none;line-height:1;-webkit-font-smoothing:antialiased;-moz-osx-font-
smoothing:grayscale}.ti-2fa:before{content:"\eca0"}.ti-3d-cube-sphere:before{content:"\ecd7"}.ti-a-
b:before{content:"\ec36"}.ti-access-point:before{content:"\ed1b"}.ti-access-point-off:before{content:"\ed1a"}.ti-
accessible:before{content:"\eba9"}.ti-activity:before{content:"\ed23"}.ti-ad:before{content:"\ea02"}.ti-ad-
2:before{content:"\ef1f"}.ti-adjustments:before{content:"\ea03"}.ti-adjustments-alt:before{content:"\ec37"}.ti-
adjustments-horizontal:before{content:"\ec38"}.ti-aerial-lift:before{content:"\edfe"}.ti-
affiliate:before{content:"\edff"}.ti-alarm:before{content:"\ea04"}.ti-alert-circle:before{content:"\ea05"}.ti-alert-
octagon:before{content:"\ecc6"}.ti-alert-triangle:before{content:"\ea06"}.ti-alien:before{content:"\ebde"}.ti-align-
center:before{content:"\ea07"}.ti-align-justified:before{content:"\ea08"}.ti-align-left:before{content:"\ea09"}.ti-
align-right:before{content:"\ea0a"}.ti-ambulance:before{content:"\ebf5"}.ti-anchor:before{content:"\eb76"}.ti-
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```

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Found

in path(s):

* /freethinkel-yamux-v0-1-1-0-g502720e-1-tar-gz/freethinkel-yamux-502720e/src/assets/tabler-icons.min.css

1.217 afero 1.12.0

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1.218 pam 1.6.1-r1

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1.219 go-sql-driver-mysql 1.9.0

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1.220 urllib3 1.26.20

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1.221 x-time-rate 0.9.0

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1.222 grpc-go 1.70.0

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1.223 skalibs 2.14.3.0-r0

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1.224 nss 3.107-r0

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1.225 oklog-run 1.1.0

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1.226 pgservicefile 0.0.0-20240606120523-5a60cdf6a761

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1.227 grpc-gateway 2.14.0

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1.228 pgx 5.6.0

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1.229 swaggo-swag 1.16.4

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1.230 sosodev-duration 1.3.1

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1.231 hailocab-go-hostpool 0.0.0-

20160125115350-e80d13ce29ed

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1.232 go-metrics 0.4.1

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1.233 otel-exporters-otlp-internal-retry 1.11.2

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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#
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

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

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

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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 * modified form, subject only to the restrictions that (1) the author is
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   be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
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 */
```

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

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

```
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//////////////////////////////////////////////////////////////////
```

Codegen template
in t_html_generator.h

```
* Bootstrap v2.0.3
*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

1.234 gocql 1.3.0

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1.235 alpine-base 3.21.3-r0

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pkgname=alpine-base

pkgver=3.21.3

pkgrel=0

pkgdesc="Meta package for minimal alpine base"

url="https://alpinelinux.org"

arch="noarch"

license="MIT"

depends=""

1.236 mergo 0.3.15

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

fields:

site: string

author: root

1.237 aescts 2.0.0

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1.238 otel-exporters-otlp-otlptrace 1.31.0

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1.244 go-systemd 22.5.0

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1.245 edwards25519 1.1.0

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1.254 go-auth-oauth2adapt 0.2.2

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc      v4.25.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    (
        // Verify that this generated code is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
        // Verify that runtime/protoimpl is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
    )

    // Defines types of the grantee of this permission.
    type Permission_GranteeType int32

    const (
        // The default value. This value is unused.

```

```

Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
// Represents a user. When set, you must provide email_address for the user.
Permission_USER Permission_GrantType = 1
// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```



```

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

```

```

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe

```

```

mission_GrantType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

```

```

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

```

```

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativeai_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
if x != nil {

```

```

    return x.Name
}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,

```

0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52, 0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,

```

0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []interface{}{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
        switch v := v.(*Permission); i {

```

```

case 0:
    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums:     2,
        NumMessages:  1,
        NumExtensions: 0,
        NumServices:  0,
    },
    GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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```

```

package compute_test

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

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

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

```



```

if err != nil {
    // TODO: Handle error.
}

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```

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

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

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}

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 := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.

```

```

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

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

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

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```

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

package compute_test

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

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

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

```
package compute
```

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

```
var newLicensesClientHook clientHook
```

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

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

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{  
        Delete: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
        Get: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
            gax.WithRetry(func() gax.Retryer {  
                return gax.OnHTTPCodes(gax.Backoff{
```

```

        Initial: 100 * time.Millisecond,
        Max:     60000 * time.Millisecond,
        Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    },
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    },
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
    },
}
}

```

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {

```



```

Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

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

//

// The Licenses API.

```
type LicensesClient struct {
```

// The internal transport-dependent client.

```
internalClient internalLicensesClient
```

// The call options for this service.

```
CallOptions *LicensesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicensesClient) Close() error {
```

```
    return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
    c.internalClient.setGoogleClientInfo(keyval...)
```

```
}
```

//

Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

```

// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

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

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

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

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

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {

```

```

return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

// The http client.
httpClient *http.Client

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

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

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

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

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

```

```

c.setGoogleClientInfo()

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

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

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

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close();
err != nil {
    return err
}
return nil
}

```

```

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

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

```

```

    }
    defer httpRsp.Body.Close()

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

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

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

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

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

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

    hds

```

```

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

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

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

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

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

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

```

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

```

opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

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

    baseUrl.RawQuery = params.Encode()

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

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

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

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

```



```

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

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

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

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

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

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

    baseUrl.RawQuery
    = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

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

```

```

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

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

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

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

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

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

```

```

return op, nil
}

```

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

```

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

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

        baseUrl.RawQuery = params.Encode()
    }
}

```

```

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

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

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

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

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

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

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

```

```

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

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

return it
}

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

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

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

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

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

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

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

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

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

```

```

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

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

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

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

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

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

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

return nil
}, opts...)

```

```
if e != nil {  
    return  
    nil, e  
}  
return resp, nil  
}
```

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1.256 go.temporal.io-api 1.43.0

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1.257 py3-setuptools 70.3.0-r0

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The code contained in this directory was automatically generated using the following command:

```
python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins
setuptools.distutils --very-verbose
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
(or to the relevant plugin repository)

- <https://github.com/abravalheri/validate-pyproject/issues>

The following files include code from opensource projects
(either as direct copies or modified versions):

- `fastjsonschema\_exceptions.py`:
 - project: `fastjsonschema` - licensed under BSD-3-Clause
(<https://github.com/horejsek/python-fastjsonschema>)
- `extra\_validations.py` and `format.py`, `error\_reporting.py`:
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(<https://github.com/abravalheri/validate-pyproject>)

Additionally the following files are automatically generated by tools provided
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- - `\_\_init\_\_.py`
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`fastjsonschema`
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`validate-pyproject`
=====

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1.258 otel-exporters-prometheus 0.34.0

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1.263 go-compute-metadata 0.2.3

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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"
```

```

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

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

func ExampleLicenseCodesClient_TestIamPermissions() {

```

```

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

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

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

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

```

```

// TODO: Use resp.
_ = resp
}

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

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

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

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

    req := &computepb.ListLicensesRequest{

```

```

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

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

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

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```

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

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

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

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

```



```

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete:      []gax.CallOption{ },
        Get:         []gax.CallOption{ },
        GetIamPolicy: []gax.CallOption{ },
        Insert:      []gax.CallOption{ },
        List:        []gax.CallOption{ },
        SetIamPolicy: []gax.CallOption{ },
        TestIamPermissions: []gax.CallOption{ },
    }
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)

```

```

Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

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

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

// Wrapper methods routed to the internal client.

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

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

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

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.

```

```
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

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

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

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

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

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

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

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

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

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
```

```

*compute.pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.pb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

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

    // The http client.
    httpClient *http.Client

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

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

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

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

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

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)

```

```

if err != nil {
    return nil, err
}
c.operationClient = opC

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

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

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

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

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.

```

```

func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

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

    baseUrl.RawQuery = params.Encode()

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

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

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

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

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

```

```

    }

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

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

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

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

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

```

```

    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

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

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

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

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

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

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

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

```



```

baseUrl.RawQuery = params.Encode()

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

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

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return

```

```

nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

    headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return
nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := &protojson.UnmarshalOptions{AllowPartial: true,
        DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {

```

```

resp := &computepb.LicensesListResponse{}
if pageToken != "" {
    req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
    req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)

```

```

if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return
maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {

```

```

m := protojson.MarshalOptions{AllowPartial:
true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)

```

```

if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
    req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
    append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
    tIamPermissions)], opts...)
    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 := 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 *compute.License.
type LicenseIterator struct {
    items []*compute.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    //
    Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}
}

```



```

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
    Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{},
        TestIamPermissions: []gax.CallOption{},
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
}
```

```

(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

```



```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
    req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx,
        clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{

```

```

internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go",
        versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
(*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // 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)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path
        != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
    })
}

```

```

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

1.264 python-setuptools 70.3.0

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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins  
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```

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`fastjsonschema`
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`validate-pyproject`

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1.267 swaggo-files 1.0.1

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1.268 thrift 0.17.0

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```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

Codegen template

in t_html_generator.h

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*

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1.269 go-compute-metadata 0.5.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.

```

```

_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }

```

```

}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```



```

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.

```

```

// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
// generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
// TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,

```

```
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)

// Defines types of the grantee of this permission.

type Permission_GranteeType int32

const (

```

// The default value. This value is unused.
Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
// Represents a user. When set, you must provide email_address for the user.
Permission_USER Permission_GrantType = 1
// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```

```

}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[int]) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

```

```

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType

```

```

`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

```

```

func (x *Permission) Reset() {
    *x = Permission{}
    if protoimpl.UnsafeEnabled {
        mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

```

```

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
ProtoReflect() protoreflect.Message {
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {

```

```

if x != nil {
    return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

```

```

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

```

```

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

```

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,

```

0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,


```

0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
        (Permission_Role)(0),       // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),         // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
                case 0:

```

```

    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums:     2,
        NumMessages:  1,
        NumExtensions: 0,
        NumServices:  0,
    },
    GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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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"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,

```

```

        Max:    60000 * time.Millisecond,
        Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
    )),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial:  100 * time.Millisecond,
            Max:      60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    )),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial:  100 * time.Millisecond,
            Max:      60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    )),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

```
type internalLicensesClient interface {
```

```
    Close() error
```

```

setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```
type LicensesClient struct {
```

// The internal transport-dependent client.

```
internalClient internalLicensesClient
```

// The call options for this service.

```
CallOptions *LicensesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicensesClient) Close() error {
```

```
    return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
    c.internalClient.setGoogleClientInfo(keyval...)
}
```

//

Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

```

```

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient
    = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

```



```

}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
            url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()),

```

```
"license", url.QueryEscape(req.GetLicense()))}}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err :=
    := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.

```

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and
    context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp);

```

```

err != nil {
    return err
}

buf, err := io.ReadAll(httpResp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

```

```

    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults",
                fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }
    }
}

```

```

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    err
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {

```



```

    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }

```

```

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }
}

```

```
return
nil
}, opts...)
if e != nil {
  return nil, e
}
return resp, nil
}
```

1.270 masterminds-goutils 1.1.1

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1.271 kubernetes-klog 2.130.1

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1.272 xxhash 2.2.0

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1.273 prometheus-client-model 0.3.0

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1.276 contrib-instrumentation-net-http-otelhttp 0.52.0

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1.277 profile 1.6.0

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1.278 temporalio-ui-server 2.32.0

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1.279 ncurses 6.5_p20241006-r3

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$
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1.280 nuid 1.0.1

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//
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.34.1
//   protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto
```

```
package generativelanguagepb
```

```

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protorelect "google.golang.org/protobuf/reflect/protorelect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                  2,
        "EVERYONE":               3,
    }
)

```

```

)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
    }

```



```

1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":            1,
    "WRITER":            2,
    "READER":            3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.

```

```

//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    if protoimpl.UnsafeEnabled {
        mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

```
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,
    0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
    0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
```

```

0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []interface{}{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }

```

```

}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
}
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            case 2:
                return &v.unknownFields
            default:
                return nil
            }
        }
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums: 2,
            NumMessages: 1,
            NumExtensions: 0,
            NumServices: 0,
        },
        GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes:

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

```

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```

```

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```

package compute_test

```

```

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute.pb"
    "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/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

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 := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute"

```

)

```
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 := &compute.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "io"  
    "math"  
    "net/http"  
    "net/url"  
    "time"
```

```

compute pb "cloud.google.com/go/compute/apiv1/compute pb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert []gax.CallOption
    List []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        GetIamPolicy:
        []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {

```

```

return gax.OnHTTPCodes(gax.Backoff{
    Initial: 100 * time.Millisecond,
    Max:     60000 * time.Millisecond,
    Multiplier: 1.30,
},
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}
}

```

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)

```

```

(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

```

```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
    context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

```



```

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close();
err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts

```

```

...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
        "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &compute.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp); err != nil {
            return err
        }

        buf, err := io.ReadAll(httpResp.Body)
        if

```

```

err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds
    = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }

```

```

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return
err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {

```

```

params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
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 := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}
}

```

```

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery
    = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if
err := googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req
```

```

*computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
        req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
        req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
        params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v",
req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
        params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
    }
    if req != nil && req.ReturnPartialSuccess != nil {
        params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := append(c.xGoogHeaders, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```



```

    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if
err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.Items(), resp.NextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

```

```

}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
    })

```

```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx,
hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return
    nil, e
}
return resp, nil
}

```

1.283 sh 1.14.3

1.283.1 Available under license :

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1.284 etcd-client-pkg 3.5.18

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1.285 itchyny-gojq 0.12.17

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1.286 spec 0.21.0

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1.287 swag 0.23.0

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1.288 gobreaker 1.0.0

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1.289 crypt 0.27.0

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1.290 tomb 1.0.0-20141024135613-dd632973f1e7

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1.291 puddle 2.2.1

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1.292 color 1.17.0

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1.293 cgroups 3.0.3

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1.294 go-urn 1.4.0

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1.295 grpc-gateway 2.26.0

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1.296 zap 1.24.0

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
# Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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# modification, are permitted in any medium without royalty provided
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
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  */
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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 * modified form, subject only to the restrictions that (1) the author is
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 * this copyright notice must
   be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

Codegen template

in t_html_generator.h

```
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*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

1.304 x-crypto 0.34.0

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1.305 nexus-rpc-sdk-go 0.1.1

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1.306 x-text 0.20.0

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1.307 pond 1.9.1

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1.308 genproto-googleapis-api 0.0.0-20250303144028-a0af3efb3deb

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1.309 google-cloud-go-iam 1.1.8

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.33.0
//  protoc      v4.25.3
//  source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    (
        // Verify that this generated code is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
        // Verify that runtime/protoimpl is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
    )
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

```

```

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

```



```

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```

```

}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"

```

```

json:"role,omitempty"
}

func (x *Permission) Reset() {
    *x = Permission{}
    if protoimpl.UnsafeEnabled {
        mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

```

```

}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,
    0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,

```

```

0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
})
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= []interface{}{
    (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
    (Permission_Role)(0),       // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),         // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
}
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} { {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            case 2:
                return &v.unknownFields
            default:
                return nil
            }
        }
    }
}

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
type x struct{}
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
    NumEnums: 2,
    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = 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/compute_pb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //

```



```

TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{

```

```

// TODO: Fill request
struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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```

```

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List       []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    },

```

```

Get: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}

```



```

}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

```

//
Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{

```

```

    endpoint: endpoint,
    httpClient: httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapis", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close();
    err != nil {
        return err
    }
}

```

```

}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
"project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unrm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if
err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

```

```

url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return
    }
    err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

```



```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery
    = params.Encode()

    // Build HTTP headers from client and context metadata.

```

```

hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if
err := googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,

```

```

    project: req.GetProject(),
  },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
    opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if
        req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }
    }
}

```

```

}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err
= googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)

```

```

if err != nil {
    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```

```

    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }
}

```

```
return nil
}, opts...)
if e != nil {
return
nil, e
}
return resp, nil
}
```

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1.310 tzdata 2025a-r0

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1.311 mapstructure 2.0.0

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1.312 libc 1.55.3

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1.313 nghttp2 1.64.0-r0

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1.314 google-cloud-go-storage 1.28.1

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
-
= resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete:      []gax.CallOption{},
        Get:         []gax.CallOption{},
        GetIamPolicy: []gax.CallOption{},
    }
}

```

```

Insert:      []gax.CallOption{},
List:        []gax.CallOption{},
SetIamPolicy: []gax.CallOption{},
TestIamPermissions: []gax.CallOption{},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

//
LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in

```

```

// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
// API service.
//
// Deprecated: 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)
*LicensesIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string
```

```
    // The http client.
    httpClient *http.Client
```

```
    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient
```

```
    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
```

```
    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
```

```
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
}
```

```

httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
    return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
    endpoint:    endpoint,
    httpClient:  httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {

```



```

// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient)
Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
"application/json"))
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &compute.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:
            c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
opts...)
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 := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil
{
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",

```

```

url.QueryEscape(req.GetProject()))))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return
    }
    maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    }
}

```

```

    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial:
true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken",
fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))

```

```

}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil
{
    return maybeUnknownEnum(err)
}

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {

```



```

    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m
    := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
    error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    })
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], 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 *compute_pb.License.
type LicenseIterator struct {
    items    []*compute_pb.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 []*compute_pb.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() (*compute_pb.License, error) {
    var item *compute_pb.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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// 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

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption

```

```

TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
return &LicenseCodesCallOptions{
    Get:          []gax.CallOption{},
    TestIamPermissions: []gax.CallOption{},
}
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

```

//
Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx
context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx,

```

```

clientOpts...)
if err != nil {
    return nil, err
}

callOpts := defaultLicenseCodesRESTCallOptions()
c := &licenseCodesRESTClient{
    endpoint:    endpoint,
    httpClient:  httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go",
        versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

```



```

}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
(*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // 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...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(),
nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpResp.Body)
        if err != nil {
            return err
        }
    })
    if err != nil {
        return nil, err
    }
    return resp, nil
}

```

```

}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq,
    err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
    append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
    tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error
    {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```

```

    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute_test
```

```
import (  
    "context"
```

```
  
    compute "cloud.google.com/go/compute/apiv1"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
)
```

```
func ExampleNewLicenseCodesRESTClient() {  
    ctx := context.Background()  
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.  
    }  
    resp, err := c.Get(ctx, req)
```

```

if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // 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/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

1.315 gocql 1.7.0

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1.317 opentelemetry-operations-go-detectors-gcp 1.25.0

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
)
```

```

// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```



```

[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":           1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string
{
return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,

```

```

0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
(Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
(Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
(*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

    },
    GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
    EnumInfos:    file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
  }.Build()
  File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
  = nil
  file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
  file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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//
// http://www.apache.org/licenses/LICENSE-2.0
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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.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

```

```

compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute_pb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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package procurement_test

```



```

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break

```

```

    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //

```

TODO: Use resp.

```
_ = resp  
}
```

```
func ExampleLicenseManagementClient_GetOperation() {  
    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 := procurement.NewLicenseManagementClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  
  
    req := &longrunningpb.GetOperationRequest{  
        // TODO: Fill request struct fields.  
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.  
    }  
    resp, err := c.GetOperation(ctx, req)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    // TODO: Use resp.  
    _ = resp  
}  
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package compute_test  
  
import (  
    "context"
```

```

compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/computepb"
"google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }

```

```

resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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package compute

import (

 "bytes"

 "context"

```

"fmt"
"log/slog"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
}

```



```

    },
    GetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
}

```

```

Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.

```

```
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty

if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,

use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners

who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
```

```

*compute.pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.pb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```

type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

```

```

    // The http client.
    httpClient *http.Client

```

```

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

```

```

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

```

```

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

```

```

    logger *slog.Logger
}

```

// 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,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

```

```

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
    }

```

```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    // and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
        if err != nil {
            return err
        }
    })

```

```

    }

    if err := unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := &protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    }, httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,

```



```

"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

```

// Insert create a License resource in the specified project. Caution This resource is intended
for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```

```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{

```

```

    c:    c.operationClient,
    proto: resp,
    project: req.GetProject(),
  },
}
return op, nil
}

// List retrieves the
// list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
// including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
// licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unmarshalOptions := &protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
      req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
    {
      req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
    } else if pageSize != 0 {
      req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
      return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
      params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
      params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
      params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
      params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
    }
  }
}

```

```

if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

```

```

it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
if err != nil {
    return err
}

if
err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

```

```

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```



```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {

```

```

if err != nil {
    // TODO: Handle error and break/return/continue. Iteration will stop after any error.
}
// TODO: Use resp.
_ = resp
}
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
grpc "google.golang.org/grpc"
codes "google.golang.org/grpc/codes"
status
"google.golang.org/grpc/status"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

```

```

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
    // Allow manual assignments triggered by administrative operations only.

```

```

ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
}

```

```

}
return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```



```

[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func

```

```

(x *AssignRequest) Reset() {
*x = AssignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

```

```

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//

```

```

[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

```

```

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo()
    == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.

```



```

// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

```

```

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"

```

```

json:"inactive_license_ttl,omitempty"
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =

```

```

[]byte{
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,

```

0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
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0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,
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0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70,
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0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
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0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
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0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
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0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
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```

0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
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0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
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0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
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0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
// 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil), // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil), // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil), // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil), // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil), // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
// 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name ->
google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->

```

```

google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:
type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
-> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
}

```

```

}
type x struct{}
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx

```

```

context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
}

```

```

    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,

```



```

*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {

```

```

    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",

```

```

}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",

```

```

Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto


```

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
    }
)

```

```

    "EVERYONE":          3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (

```

```

Permission_Role_name = map[int32]string{
    0: "ROLE_UNSPECIFIED",
    1: "OWNER",
    2: "WRITER",
    3: "READER",
}
Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":            1,
    "WRITER":            2,
    "READER":            3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,

```

```

you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativeai.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

var

File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
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    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
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    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
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    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
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    0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
    0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
```

```

0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
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0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),    // 2: google.ai.generativelanguage.v1beta.Permission
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos:  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
    = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.318 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.319 sprig 2.22.0+incompatible

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1.320 s2a-go 0.1.7

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1.321 google-go-cmp 0.5.9

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1.322 go.temporal.io-server 1.26.2

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1.323 musl 1.2.5-r9

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1.324 gax-go 2.12.4

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1.325 nexus-rpc-sdk-go 0.0.12

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1.326 otel-exporters-otlp-otlptrace 1.11.2

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lib/erl/src/Makefile.am

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```
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```

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```
/*
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  */
  (By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

Codegen template

in t_html_generator.h

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*

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*

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1.327 zap 1.27.0

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1.328 x-sys 0.29.0

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1.329 go-oidc 3.11.0

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1.330 otel-sdk 1.34.0

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1.331 prometheus-client 1.14.0

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1.332 depth 1.2.1

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1.333 google-uuid 1.3.0

1.333.1 Available under license :

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1.334 otel-exporters-prometheus 0.56.0

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1.335 google-cloud-go-firestore 1.18.0

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//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)
```

```

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"

```

```

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
"google.golang.org/api/iterator"
)

```

```

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
    }
}

```

```

//
TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
// TODO: Fill request struct fields.
//
See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
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 := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {

```

```

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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

```



```

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

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 := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "log/slog"  
    "math"  
    "net/http"  
    "net/url"
```

"time"

computepb "cloud.google.com/go/compute/apiv1/compute_pb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/iterator"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/protobuf/encoding/protojson"

"google.golang.org/protobuf/proto"

)

var

newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

type LicensesCallOptions struct {

Delete []gax.CallOption

Get []gax.CallOption

GetIamPolicy []gax.CallOption

Insert []gax.CallOption

List []gax.CallOption

SetIamPolicy []gax.CallOption

TestIamPermissions []gax.CallOption

}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {

return &LicensesCallOptions{

Delete: []gax.CallOption{

gax.WithTimeout(600000 * time.Millisecond),

},

Get: []gax.CallOption{

gax.WithTimeout(600000 * time.Millisecond),

gax.WithRetry(func() gax.Retryer {

return gax.OnHTTPCodes(gax.Backoff{

Initial: 100 * time.Millisecond,

Max: 60000 * time.Millisecond,

Multiplier: 1.30,

},

http.StatusGatewayTimeout,

http.StatusServiceUnavailable)

}),

},

GetIamPolicy:

[]gax.CallOption{

gax.WithTimeout(600000 * time.Millisecond),

gax.WithRetry(func() gax.Retryer {

```

return gax.OnHTTPCodes(gax.Backoff{
    Initial: 100 * time.Millisecond,
    Max:     60000 * time.Millisecond,
    Multiplier: 1.30,
},
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)

```

```

(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

```

```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// 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,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }

```

```

}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

```


// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
```

```
    baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client
and context metadata.
```

```
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
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
```

```
    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }
```

```
    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }
```

```

    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
    hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unrm := 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

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)

```

```

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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{

```

```

if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

```

```

return op, nil
}

// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            {
                req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

```

```

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
        if err != nil {
            return err
        }
    })
}

```



```

    if
err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// 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
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3

```

```

)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.

```

```

type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

```

```

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.

```

```

Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativeai_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
if x != nil && x.GranteeType != nil {
return *x.GranteeType
}
return Permission_GRANTEE_TYPE_UNSPECIFIED
}

```

```

}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
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    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
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    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
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    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,

```



```

0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
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0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
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0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
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0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
})
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GranteeType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums: 2,
            NumMessages: 1,
            NumExtensions: 0,
            NumServices: 0,
        },
        GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }

```

```

}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c

```

```

}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {

```

```

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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//
// https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
}
for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
// Copyright 2025 Google LLC
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//
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.

```

```

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

```

```

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
}

```



```

return p
}

func (x Permission_Role) String() string
{
return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be
// generated on create. Examples:
//

```

```

// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

```

func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
    File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,

```

0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,

```

0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
        (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
        (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
    }
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }

```

```

}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
    NumEnums: 2,
    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

```

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
//  source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType

```

```

isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType); ok {
        return x.ManualAssignmentType
    }
}

```



```

return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
return x.AutoAssignmentType
}
return nil
}

type isAssignmentProtocol_AssignmentType interface {
isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state protoimpl.MessageState
sizeCache protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`

```

```

// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {

```

```

    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if
ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//

```

```

[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

```

```

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
*x = AssignResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {

```



```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

```

```

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

```

```

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if

```

```

x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
        []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

// The list of licensed users.
LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
// A token that can be sent as `page_token` to retrieve the next page.
// If this field is omitted, there are no subsequent pages.
NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
*x = EnumerateLicensedUsersResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
if x != nil {
return x.LicensedUsers
}
}

```

```

return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {

```



```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
if x != nil {
return x.InactiveLicenseTtl
}
return nil
}

```

```

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{

```

```

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0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData

```

```

= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
})
return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),
        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil),
        // 8:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil),
        // 10:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil),
        // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil),
        // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),
        // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name

```

```

-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name

```



```

9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}

func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.

```

```

const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out, opts...)
}

```

```

if err != nil {
    return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)

```

```

(*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
}

```

```

info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.prourement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {

```

```

MethodName: "GetLicensePool",
Handler:  _LicenseManagementService_GetLicensePool_Handler,
},
{
MethodName: "UpdateLicensePool",
Handler:  _LicenseManagementService_UpdateLicensePool_Handler,
},
{
MethodName: "Assign",
Handler:
  _LicenseManagementService_Assign_Handler,
},
{
MethodName: "Unassign",
Handler:  _LicenseManagementService_Unassign_Handler,
},
{
MethodName: "EnumerateLicensedUsers",
Handler:  _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams:  []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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1.336 platformdirs 2.6.2

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1.337 consul-api 1.31.0

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```
{{!  
Copyright (c) HashiCorp, Inc.  
SPDX-License-Identifier: BUSL-1.1  
}}  
  
<div  
...attributes  
class="consul-intention-permission-header-form"  
>  
<FormGroup  
  @name={{name}}  
as |group|>  
  
  {{yield (hash  
    submit=(action 'submit' changeset)  
    reset=(action 'reset' changeset)  
  
    isDirty=(and changeset.isValid changeset.isDirty)  
    changeset=changeset  
  )}}  
}}
```

```

<fieldset>
  <div>
    <group.Element
      @name="HeaderType"
      @type="select"
    as |el|>
      <el.Label>Header type</el.Label>
      <PowerSelect
        @options={{headerTypes}}
        @selected={{headerType}}
        @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
          {{get headerLabels Type}}
        </PowerSelect>
      </group.Element>

    <group.Element
      @name="Name"
      @error={{changeset-get changeset 'error.Name'}}
    as |el|>
      <el.Label>Header name</el.Label>
      <el.Text

        @value={{changeset-get changeset 'Name'}}
        oninput={{action 'change' 'Name' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Name.validation'}}
        </el.Error>
      </State>
    </group.Element>

    {{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
    {{/if}}
  </div>
</fieldset>

```

```

    </State>
  </group.Element>
  {{/if}}

  {{#if shouldShowIgnoreCaseField}}
    <group.Element

      @name="IgnoreCase"
      @error={{ changeset-get changeset 'error.IgnoreCase' }}
      as |el|>
        <el.Label>Ignore Case</el.Label>
        <el.Checkbox
          checked={{ if IgnoreCase 'checked' }}
          onchange={{ action 'change' 'IgnoreCase' changeset }}
        />
      </group.Element>
    {{/if}}
  
```

```

    </div>
  </fieldset>
</FormGroup>
</div>

```

layout: api

page_title: License - Operator - HTTP API

description: |-

The `/operator/license` endpoint allows for retrieving the Consul Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
GET	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency),

[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
-----	-----	-----	-----
`NO`	`all`	`none`	`none`

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `-dc` (string: "")`` - Specifies the datacenter whose license should be retrieved.
This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```
``shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
``
```

Sample Response

```
``json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",

      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  }
}
```

```

},
"Warnings": []
}
...

```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
-----	-----	-----
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
-----	-----	-----	-----
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` (string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request.`

Sample Payload

The payload is the raw license blob.

Sample Request

```

```shell-session
$ curl \
 --request PUT \
 --data @consul.license \
 http://127.0.0.1:8500/v1/operator/license
```

```


Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product":
 "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
},
"Warnings": []
}
```
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
DELETE	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching),

and

[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries Consistency Modes Agent Caching ACL Required
----- ----- ----- -----
`NO` `none` `none` `operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- ``dc` (string: "")` - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```
```shell-session
$ curl \
 --request DELETE \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
},
```
```

```

"Warnings": []
}
```

/**
 * Copyright (c) HashiCorp, Inc.
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 */

@import './skin';
@import './layout';
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

.consul-intention-permission-form {
 h2 {
 padding-top: 1.4em;
 margin-top: 0.2em;
 margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
 margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
 display: grid;
 grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
 grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
 grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
 padding: 5px;
 }
 .checkbox-group {
 flex-direction: column;
 }
}

/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {

```

```

@extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}

```

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---

layout: docs

page\_title: Enterprise License FAQ

description: >-

Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

---

## # Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

### ## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.

If the license is missing, invalid, or expired, the server will immediately exit.

This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.

This will no longer work since each server must be able to find a valid license during the startup process.

### ## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.

During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.

The upgrade process varies if ACLs are enabled or disabled in the cluster.

Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

### ## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-

license?utm\_source=docs).

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)
- [Consul License Documentation](/consul/docs/enterprise/license/overview)
- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.

This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from <https://releases.hashicorp.com>.

The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,

a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.

The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.

The license can be provided on disk (auto-loaded) or as an environment variable.

There is no longer a 6-hour trial period in which Consul Enterprise server agents can operate without a license.

## Q: Is there a grace period when licenses expire?

**\*\*Yes** Consul will continue normal operation and can be restarted after license **\*expiration\*\*\*** as defined in `[`expiration_time`]`(/consul/api-docs/operator/license#getting-the-consul-license).

As

license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years after license expiration and is defined in `[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license)`.

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:

Please contact your support representative for more details on non-terminating licenses.

An expired license will not allow Consul versions released after the expiration date to run.

It will not be possible to upgrade to a new version of Consul released after license expiration.

**Q: Does this affect client agents?**

There are upgrade requirements that affect Consul Enterprise clients.

Please review the `[upgrade requirements](#q-what-are-the-upgrade-requirements)` documentation.

**Q: Does this affect snapshot agents?**

Same behavior as Consul clients.

See answer for `[Does this affect client agents? ](#q-does-this-affect-client-agents)`

**Q: What is the behavior if the license is missing?**

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains ``retry_join`` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains ``retry_join`` addresses, the retry join addresses are addresses of the Consul servers.

**Q: Where can users get a trial license for Consul Enterprise?**

Contact your `[HashiCorp Support contact](https://support.hashicorp.com/)` for a development license.

~> **Trial**

install will cease operation 24 hours after 30-day license expiration

Trial licenses are not meant to be used in production.

This is unlike non-trial licenses which provide a 10 year grace period as described in

the answer for `[Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire)`.

**Q: How can I renew a license?**

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

## Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this  
impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise \*\*will check for the presence of a valid license every time a node restarts\*\*.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New

Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable. Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run [`consul license get -signed``](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required



license. This could be via the client agent configuration file or an environment variable.

1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

### ### Kubernetes

**\*\*NOTE:\*\*** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.

1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).

Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>

**\*\*Warning:\*\*** If you are upgrading the Helm chart but **\*\*not\*\*** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

**## Q:** What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### ### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.

1. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

### ### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm\_source=docs)

for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading

to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.

This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.

You will need to add the following configuration.

...

server:

enterpriseLicense:

enableLicenseAutoload: false

...

/\*\*

\* Copyright (c) HashiCorp, Inc.

\* SPDX-License-Identifier: BUSL-1.1

\*/

.consul-intention-permission-header-list {

```

max-height: 200px;
overflow: auto;
}
{!!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: BUSL-1.1
}}

```

```

{{#if (gt items.length 0)}}
<ListCollection
class="consul-intention-permission-header-list"
@items={{ items }}
@scroll="native"
@cellHeight={{ 42 }}
as |item|>
 <BlockSlot @name="details">
 <dl>
 <dt>
 <Tooltip>
 Header
 </Tooltip>
 </dt>
 <dd>
 {{ item.Name }} {{ route-match item }}
 </dd>
 </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
 <Actions as |Action|>
 <Action data-test-delete-action @onclick={{ action ondelete item }} class="dangerous">
 <BlockSlot @name="label">
 Delete
 </BlockSlot>
 <BlockSlot @name="confirmation" as |Confirmation|>
 <Confirmation class="warning">
 <BlockSlot @name="header">
 Confirm delete
 </BlockSlot>
 <BlockSlot @name="body">
 <p>
 Are you sure you want to delete this header?
 </p>
 </BlockSlot>
 <BlockSlot @name="confirm" as |Confirm|>
 <Confirm>Delete</Confirm>
 </BlockSlot>
 </Confirmation>
 </BlockSlot>
 </Action>
 </Actions>
 </BlockSlot>
</BlockSlot>

```

```

 </BlockSlot>
 </Action>
</Actions>
</BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
 "rules": {
 "policies": {
 "consul-intentions-layer7-0": {
 "permissions": [
 {
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "exact": "/v1/secret"
 }
 }
 }
],
 },
 },
 {
 "andRules": {
 "rules": [
 {
 "metadata": {
 "filter": "envoy.filters.http.jwt_authn",
 "path": [
 {
 "key": "jwt_payload_auth0"
 },
 {
 "key": "iss"
 }
],
 "value": {
 "stringMatch": {
 "exact": "mytest.auth0-issuer"
 }
 }
 }
 }
],
 },
 },
 {
 "metadata": {
 "filter": "envoy.filters.http.jwt_authn",

```

```

 "path": [
 {
 "key": "jwt_payload_auth0"
 },
 {
 "key": "perms"
 },
 {
 "key": "role"
 }
],
 "value": {
 "stringMatch": {
 "exact": "admin"
 }
 }
 }
}
}
}
]
}
}
]
}
},
{
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "exact": "/v1/admin"
 }
 }
 },
 {
 "notRule": {
 "urlPath": {
 "path": {
 "exact": "/v1/secret"
 }
 }
 }
 }
]
 }
}
],

```

```

"principals": [
{
 "andIds": {
 "ids": [
 {
 "authenticated": {
 "principalName": {

 "safeRegex": {
 "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
 }
 }
 }
 },
 {
 "andIds": {
 "ids": [
 {
 "metadata": {
 "filter": "envoy.filters.http.jwt_authn",
 "path": [
 {
 "key": "jwt_payload_okta"
 },
 {
 "key": "iss"
 }
],
 "value": {
 "stringMatch": {
 "exact": "mytest.okta-issuer"
 }
 }
 }
 }
],
 {
 "metadata": {
 "filter": "envoy.filters.http.jwt_authn",
 "path": [
 {
 "key": "jwt_payload_okta"
 },
 {
 "key": "roles"
 }
],
 "value": {

```

```

 "stringMatch": {
 "exact": "testing"
 }
 }
}
}
]
}
}
]
}
}
]
}
}
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
 "rules": {
 "policies": {
 "consul-intentions-layer7-0": {
 "permissions": [
 {
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "prefix": "/v1"
 }
 }
 },
 {
 "notRule": {
 "urlPath": {
 "path": {
 "exact": "/v1/secret"
 }
 }
 }
 }
]
 }
 }
]
 }
 }
 }
 }
},

```

```

{
 "andRules": {
 "rules": [
 {
 "andRules": {
 "rules": [
 {

 "urlPath": {
 "path": {
 "safeRegex": {
 "regex": "/v[123]"
 }
 }
 },
 {
 "header": {
 "name": ":method",
 "stringMatch": {
 "safeRegex": {
 "regex": "GET|HEAD|OPTIONS"
 }
 }
 }
 }
]
 }
 },
 {
 "notRule": {
 "urlPath": {
 "path": {
 "exact": "/v1/secret"
 }
 }
 }
 }
],
 {
 "notRule": {
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "exact": "/v1/admin"
 }
 }
 }
]
 }
 }
]
 }
}

```



```

 }
 },
 {
 "header": {
 "name": ":",method",
 "stringMatch": {
 "safeRegex": {
 "regex": "GET"
 }
 }
 }
 }
]
}
}
}
]
}
}
}
},
{
 "andRules": {
 "rules": [
 {
"andRules": {
 "rules": [
 {
 "header": {
 "name": "x-foo",
 "presentMatch": true
 }
 },
 {
 "header": {
 "name": "x-bar",
 "stringMatch": {
 "exact": "xyz"
 }
 }
 }
],
 {
 "header": {
 "name": "x-dib",
 "stringMatch": {
 "prefix": "gaz"
 }
 }
 },

```

```

 {
 "header": {
 "name": "x-gir",
 "stringMatch": {
 "suffix": "zim"
 }
 }
 },
 {
 "header": {
 "name": "x-zim",
 "stringMatch": {
 "safeRegex": {
 "regex": "gi[rR]"
 }
 }
 }
 },
 {
 "header": {
 "invertMatch": true,
 "name": "z-foo",
 "presentMatch": true
 }
 },
 {
 "header": {
 "invertMatch": true,
 "name": "z-bar",
 "stringMatch": {
 "exact": "xyz"
 }
 }
 },
 {
 "header": {
 "invertMatch": true,
 "name": "z-dib",
 "stringMatch": {
 "prefix": "gaz"
 }
 }
 },
 {
 "header": {
 "invertMatch": true,

```

```

 "name": "z-gir",
 "stringMatch": {
 "suffix": "zim"
 }
 },
 {
 "header": {
 "invertMatch": true,
 "name": "z-zim",
 "stringMatch": {
 "safeRegex": {

 "regex": "gi[rR]"
 }
 }
 }
 }
],
},
{
 "notRule": {
 "urlPath": {
 "path": {
 "exact": "/v1/secret"
 }
 }
 }
},
{
 "notRule": {
 "header": {
 "name": "x-baz",
 "presentMatch": true
 }
 }
}
],
}
},
],
"principals": [
 {
 "authenticated": {
 "principalName": {
 "safeRegex": {
 "regex": "^spiffe://test.consul/ns/default/dc[/^]+/svc/web$"
 }
 }
 }
 }
]

```

```

 }
 }
}
]
}
}
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
 "rules": {},
 "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
 "license_id": "${fake.random.uuid()}",
 "customer_id": "${fake.random.uuid()}",
 "installation_id": "*",
 "issue_time": "2021-01-13T15:25:19.052900132Z",
 "start_time": "2021-01-13T00:00:00Z",
 "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
 "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
 "product": "consul",
 "flags": {
 "modules": [
 "global-visibility-routing-scale",
 "governance-policy"
]
 },
 "modules": [
 "Global Visibility, Routing and Scale",
 "Governance and Policy"
],
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation",
 "Namespaces",
 "SSO",

```

```

 "Audit Logging",
 "Admin Partitions"
]
},
"Warnings": [
]
}
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
 "providers": {
 "okta": {
 "issuer": "test-issuer",
 "payloadInMetadata": "jwt_payload_okta",
 "remoteJwks": {
 "asyncFetch": {
 "fastListener": true
 },
 "httpUri": {
 "cluster": "jwks_cluster_okta",
 "timeout": "1s",
 "uri": "https://example-okta.com/.well-known/jwks.json"
 }
 }
 }
 }
 },
 "rules": [
 {
 "match": {
 "prefix": "/"
 },
 "requires": {
 "requiresAny": {
 "requirements": [
 {
 "providerName": "okta"
 },
 {
 "allowMissingOrFailed": {}
 }
]
 }
 }
 }
]
}
}

```

```

/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
 @extend %list-row-200;
 }
}
Proprietary License

```

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```

{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
 "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
 "rules": {
 "policies": {
 "consul-intentions-layer7-0": {
 "permissions": [
 {
 "andRules": {
 "rules": [
 {
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "prefix": "/v1"
 }
 }
]
 }
 },
 {
 "header": {
 "name": "x-foo",
 "presentMatch": true
 }
 }
]
 }
 }
]
 }
 }
 }
 }
}

```

```

 }
]
}
},
{
 "notRule": {
 "andRules": {

 "rules": [
 {
 "urlPath": {
 "path": {
 "exact": "/v1/secret"
 }
 }
 },
 {
 "header": {
 "name": "x-baz",
 "presentMatch": true
 }
 },
 {
 "header": {
 "name": "x-bar",
 "presentMatch": true
 }
 }
]
 }
 },
 {
 "notRule": {
 "andRules": {
 "rules": [
 {
 "urlPath": {
 "path": {
 "exact": "/v1/admin"
 }
 }
 },
 {
 "header": {
 "name": "x-baz",
 "presentMatch": true
 }
 }
]
 }
 }
 }
}

```

```

 }
 },
 {
 "header": {
 "name": "x-bar",
 "presentMatch": true
 }
 }
]
}
}
}
]
}
}
],
"principals": [
 {
 "authenticated": {
 "principalName": {
 "safeRegex": {
 "regex": "^spiffe://test.consul/ns/default/dc[/]+/svc/web$"
 }
 }
 }
 }
]
}
}
}
}
}
}
License

```

```

``hbs preview-template
<figure>
<figcaption>URI: <code>/:partition/:namespace/:dc/license</code></figcaption>
<DataSource
 @src={{
 uri '${partition}/${namespace}/${dc}/license'
 (hash
 partition='partition'
 namespace='ns'
 dc='dc-1'
)
 }}
 @onchange={{action (mut data) value="data"}}
/>

```



```
<pre><code>{{json-stringify data null 4}}</code></pre>
```

```
</figure>
```

```

```

```

```

page\_title: Automated license utilization reporting

description: >-

Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

```

```

## # Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

### ## Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

### ## Requirements

Automated license utilization reporting does not support `_air-gapped installations_`, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](<https://releases.hashicorp.com/consul/>) page.

### ## Enable automated reporting

Before you enable automated reporting,

make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not

work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

### Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

### Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

...

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshallng
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO] reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}},"metadata":{}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

...

</CodeBlockConfig>

If

your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

```
<CodeBlockConfig hideClipboard>
```

```

```

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403

```

```
</CodeBlockConfig>
```

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

## ## Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```
```hcl
reporting {
  license {
    enabled = false
  }
}
```

...

When opting out using an environment variable, the system provides a startup message confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```
```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```
```shell-session
$ consul reload
```
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`exporter\_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```
```json
{
 "payload": {
 "payload_version": "1",
 "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
 "product": "consul",
 "product_version": "1.16.0-dev+ent",
 "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
 "snapshots": [
 {
 "snapshot_version": 1,
 "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
 "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
 "timestamp": "2023-05-26T20:09:13.753513962Z",
 "schema_version": "1.0.0",

```

```

 "service": "consul",
 "metrics": {
 "consul.billable.nodes": {
 "key": "consul.billable.nodes",
 "kind": "counter",
 "mode": "write",
 "value": 2
 },
 "consul.billable.service_instances": {
 "key": "consul.billable.service_instances",
 "kind": "counter",
 "mode": "write",
 "value": 2
 }
 }
 },
 "metadata": {}
}

```

</CodeBlockConfig>

---

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 consul-kv/secret/enterpriselicense 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 "consul-kv/data/secret/enterpriselicense" {
  capabilities = ["read"]
}
```
```

```
</CodeBlockConfig>
```

Apply the Vault policy by issuing the `vault policy write` CLI command:

```
```shell-session
$ vault policy write license-policy license-policy.hcl
```
```

## ## Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```
```shell-session
$ vault write auth/kubernetes/role/consul-server \
  bound_service_account_names=<Consul server service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
```

```

    policies=license-policy \
    ttl=1h
  ...

```

```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
 bound_service_account_names=<Consul client service account> \
 bound_service_account_namespaces=<Consul installation namespace> \
 policies=license-policy \
 ttl=1h
...

```

To find out the service account names of the Consul server and client, you can run the following `helm template` commands with your Consul on Kubernetes values file:

```

- Generate Consul server service account name
```shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
...

```

```

- Generate Consul client service account name
```shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
...

```

## Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to use the enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```

```yaml
global:
  image: hashicorp/consul-enterprise:1.12.0-ent
  secretsBackend:
    vault:
      enabled: true
      consulServerRole: consul-server
      consulClientRole: consul-client
  enterpriseLicense:
    secretName: consul-kv/data/secret/enterpriselicense
    secretKey: key
...

```

</CodeBlockConfig>

Note

that ``global.enterpriseLicense.secretName`` is the path of the secret in Vault. This should be the same path as the one you included in your Vault policy. ``global.enterpriseLicense.secretKey`` is the key inside the secret data. This should be the same as the key you passed when creating the enterprise license secret in Vault.

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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>

<A.Title>Intention Custom Resource</A.Title>

<A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>

<A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"

@text='Learn more about CRDs'

@icon="docs-link"

@iconPosition="trailing"

@size="small" />

</Hds::Alert>

/**

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*/

.consul-intention-permission-form {

h2 {

border-top: 1px solid var(--token-color-foreground-action);

@extend %display-400-semibold;

}

button.type-submit {

@extend %frame-blue-300;

}

button.type-submit:hover:not(:disabled),

button.type-submit:focus:not(:disabled) {

@extend %frame-blue-500;

}

button.type-submit:disabled {

@extend %frame-blue-200;

}

}

.consul-intention-view {

h2 {


```
@extend %display-400-semibold;
}
}
Copyright (c) 2020 HashiCorp, Inc.
```

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layout: docs

page_title: Consul-Terraform-Sync Enterprise License

description: >-

Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>

Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise

</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated 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-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

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}}

{{#if (gt items.length 0)}}

<ListCollection

class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"

@scroll="native"

@items={{items}}

@partial={{5}}

as |item|>

<BlockSlot @name="details">

<div onclick={{action (optional onclick) item}}>

<strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}

{{#if (gt item.HTTP.Methods.length 0)}}

<dl class="permission-methods">

<dt>

<Tooltip>

Methods

</Tooltip>

</dt>

<dd>

{{#each item.HTTP.Methods as |item|}}

{{item}}

{{/each}}

</dd>

</dl>

{{/if}}

{{#if item.HTTP.Path}}

<dl class="permission-path">

<dt>

<Tooltip>

{{item.HTTP.PathType}}

```

        </Tooltip>
    </dt>
    <dd>
        {{item.HTTP.Path}}
    </dd>
</dl>
{{/if}}
{{#each item.HTTP.Header
as |item|}}
    <dl class="permission-header">
        <dt>
            <Tooltip>
                Header
            </Tooltip>
        </dt>
        <dd>
            {{item.Name}} {{route-match item}}
        </dd>
    </dl>
{{/each}}
</div>
</BlockSlot>
{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
    <Actions as |Action|>
        <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
            <BlockSlot @name="label">
                Edit
            </BlockSlot>
        </Action>
        <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
            <BlockSlot @name="label">
                Delete
            </BlockSlot>
            <BlockSlot @name="confirmation" as |Confirmation|>
                <Confirmation class="warning">
                    <BlockSlot @name="header">
                        Confirm delete
                    </BlockSlot>
                    <BlockSlot @name="body">
                        <p>
                            Are you sure you
want to delete this permission?
                        </p>
                    </BlockSlot>
                    <BlockSlot @name="confirm" as |Confirm|>
                        <Confirm>Delete</Confirm>
                    </BlockSlot>
                </Confirmation>
            </BlockSlot>
        </Action>
    </Actions>
</BlockSlot>
{{/if}}

```

```

    </Confirmation>
  </BlockSlot>
</Action>
</Actions>
</BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

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```

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.

``text

Usage: consul license <subcommand> [options] [args]

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:

```
$ consul license put "<license blob>"
```

Retrieve the current license:

```
$ consul license get
```

Inspect a license:

```
$ consul license inspect "<path to license file>"
```

Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:

```
get      Get the active license
inspect  Inspect a signed license
put      Puts a new license in the datacenter
reset    Resets the license in the datacenter
```

...

inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

...

```
$ consul license inspect consul.hcl
```

Inspect a license loaded from the environment:

...

```
$ consul license inspect
```

This will look at the `CONSUL_LICENSE` environment variable first and if not present then we will look for the file specified by the `CONSUL_LICENSE_PATH` environment variable.

The output looks like this:

...

Source: /consul/config/consul.hcl (path from the CONSUL_LICENSE_PATH environment variable)

Product: consul

License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50

Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4

Installation ID: *

Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC

Start Time: 2020-09-14 00:00:00 +0000 UTC

Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC

Termination Time: 2021-09-14 23:59:59.999 +0000 UTC

Modules:

Global Visibility, Routing and Scale

Governance and Policy

Features:

Automated Backups

Automated Upgrades

Enhanced Read Scalability

Network Segments

Redundancy Zone

Advanced Network Federation

Namespaces

SSO

Audit Logging

Admin Partitions

License is valid

...

put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: `[PUT] /v1/operator/license` (`/consul/api-docs/operator/license#updating-the-consul-license`)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs] (`/consul/api-docs/api-structure#authentication`).

Configuration of

[blocking queries] (`/consul/api-docs/features/blocking`) and [agent caching] (`/consul/api-docs/features/caching`) are not supported from commands, but may be from the corresponding HTTP endpoint.

| ACL Required |

| ----- |

| `operator:write` |

Usage: `consul license put [options] LICENSE`

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
```
```

API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

```
## get
```

Corresponding HTTP API Endpoint: `[GET] /v1/operator/license[/consul/api-docs/operator/license#getting-the-consul-license]`

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers will display the outdated license in their GET output.

The table below

shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required

`none`

Usage: `consul license get [options]`

The output looks like this:

```

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
```

```

API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: `[DELETE] /v1/operator/license` (`/consul/api-docs/operator/license#resetting-the-consul-license`)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs] (`/consul/api-docs/api-structure#authentication`). Configuration of [blocking queries] (`/consul/api-docs/features/blocking`) and [agent caching] (`/consul/api-docs/features/caching`) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required	

<code>`operator:write`</code>	

Usage: ``consul license reset [options]``

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
```
```

API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

Mozilla Public License 2.0 (MPLv2.0)

/**

* Copyright (c) HashiCorp, Inc.

* SPDX-License-Identifier: BUSL-1.1

*/

```
.agentless-node-notice .hds-alert__title {
display: flex;
justify-content: space-between;
}
{
"name": "envoy.filters.http.rbac",
"typedConfig": {
"@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
"rules": {
"policies": {
"consul-intentions-layer7-0": {
"permissions": [
{
"andRules": {
"rules": [
{
"andRules": {
"rules": [
{
```

```

    "urlPath": {
      "path": {
        "prefix": "/v1"
      }
    },
    {
      "header": {
        "name": "x-foo",
        "presentMatch": true
      }
    }
  ]
},
{
  "notRule": {
    "andRules": {

      "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        },
        {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        },
        {
          "header": {
            "name": "x-bar",
            "presentMatch": true
          }
        }
      ]
    }
  },
  {
    "notRule": {
      "andRules": {
        "rules": [
          {

```

```

"urlPath": {
    "path": {
        "exact": "/v1/admin"
    }
},
{
    "header": {
        "name": "x-baz",
        "presentMatch": true
    }
},
{
    "header": {
        "name": "x-bar",
        "presentMatch": true
    }
}
]
}
}
}
}
},
{
    "andRules": {
        "rules": [
            {
                "andRules": {
                    "rules": [
                        {

```

```

"urlPath": {
    "path": {
        "prefix": "/v2"
    }
},
{
    "header": {
        "name": "x-foo",
        "presentMatch": true
    }
}
]
}

```

```

    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v2/secret"
                }
              }
            }
          ],
          },
        {
          "header": {
            "name": "x-baz",
            "presentMatch":
true
          }
        }
      ],
      },
    {
      "header": {
        "name": "x-bar",
        "presentMatch": true
      }
    }
  ]
}
},
{
  "notRule": {
    "andRules": {
      "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v2/admin"
            }
          }
        }
      ],
      },
    {
      "header": {
        "name": "x-baz",
        "presentMatch": true
      }
    }
  ],
}

```

```

    {
        "header": {
            "name": "x-bar",
            "presentMatch": true
        }
    }
]
}
}
}
]
}
}
],
"principals": [
{
    "authenticated": {
        "principalName": {
            "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc[/^]+/svc/web$"
            }
        }
    }
}
]
}
}
}
}
{
    "name": "envoy.filters.http.rbac",
    "typedConfig": {
        "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
        "rules": {
            "policies": {
                "consul-intentions-layer7-0": {
                    "permissions": [
                        {
                            "andRules": {
                                "rules": [
                                    {
                                        "urlPath": {
                                            "path": {
                                                "prefix": "some-path"
                                            }
                                        }
                                    }
                                ]
                            }
                        }
                    ],
                },
            }
        }
    }
}

```

```

{
  "andRules": {
    "rules": [
      {
        "metadata": {
          "filter": "envoy.filters.http.jwt_authn",
          "path": [
            {
              "key": "jwt_payload_okta"
            },
            {
              "key": "iss"
            }
          ],
          "value": {
            "stringMatch": {
              "exact": "mytest.okta-issuer"
            }
          }
        },
        {
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_okta"
              },
              {
                "key": "roles"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "testing"
              }
            }
          }
        }
      ]
    }
  }
},

```



```

// 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
}
}

```

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```

<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")}}
    <Hds::Toast @color='warning'
      {{notification
        sticky=true
      }} as |T|>
      <T.Title>Warning!</T.Title>
      <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
    </Hds::Toast>
  {{else if (eq loader.error.status "403")}}

```

```

<Hds::Toast @color='critical'
  {{notification
    sticky=true
  }} as |T|>
  <T.Title>Error!</T.Title>
  <T.Description>You no longer have access to this service.</T.Description>
</Hds::Toast>
{{else}}
<Hds::Toast @color='warning'
  {{notification
    sticky=true
  }} as |T|>
  <T.Title>Warning!</T.Title>
  <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
</Hds::Toast>
{{/if}}
</BlockSlot>

```

```

<BlockSlot @name="loaded">
  <div class="tab-section">
    <section
      class={{class-map
        'validity'
        (array 'valid' item.Valid)
      }}
    >
      <header>
        <h2>
          {{compute (fn route.t 'expiry.header')}}
        </h2>
      </header>

      <p>
        {{compute (fn route.t 'expiry.${type}.body'
          (hash
            type=(if item.Valid 'valid' 'expired')
          )
        }}
        date=(format-time item.License.expiration_time
          year='numeric'
          month='long'
          day='numeric'
        )
        time=(format-time item.License.expiration_time
          hour12=true
          hour='numeric'
          hourCycle='h12'
          minute='numeric'
          second='numeric'
        )
      </p>
    </section>
  </div>
</BlockSlot>

```

```

        timeZoneName='short'
    )
    htmlSafe=true
  )
  )}}
</p>

<dl>
  <dt class={{class-map
    (array 'valid' item.Valid)
    (array 'expired' (not item.Valid))
    (array 'warning' (temporal-within item.License.expiration_time 2629800000))
  }}
  >
    {{compute (fn route.t 'expiry.${type}.header'
      (hash
        type=(if item.Valid 'valid' 'expired')
      )
    )}}
  </dt>

  <dd>
    {{temporal-format item.License.expiration_time}}
  </dd>
</dl>

<aside>
  <header>
    <h3>
      {{compute (fn route.t 'documentation.title')}}
    </h3>
  </header>
  <div class="flex gap-1.5 flex-col">
    <Hds::Link::Standalone
      @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
      @href={{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
    <Hds::Link::Standalone
      @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
      @href={{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
  </div>
</div>

```

```

    />
    <Hds::Link::Standalone
      @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
      @href={{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
      @icon='docs-link'
      @iconPosition='trailing'
    />
  </div>
</aside>

</section>
</div>
</BlockSlot>
{{/let}}
</DataLoader>
</Route>
/**
 * Copyright (c) HashiCorp, Inc.
 * SPDX-License-Identifier: BUSL-1.1
 */

section[data-route='dc.show.license'] {
  @extend %license-route;
}
%license-route .validity {
  @extend %license-validity;
}
%license-route aside {
  @extend %license-route-learn-more;
}

%license-route h2 {
  @extend %display-400-semibold;
}

%license-validity p {
  color: var(--token-color-foreground-faint);
}
%license-validity dl {
  @extend %horizontal-kv-list;
  @extend %body-300-regular;
}
%license-validity dl .expired + dd {
  @extend %visually-hidden;
}
%license-validity dl dt::before {
  content: "

```

```

margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
  --icon-name: icon-x-circle;
  --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
  --icon-name: icon-alert-circle;
  --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
  --icon-name: icon-check-circle;
  --icon-color: var(--token-color-foreground-success);
}

```

```

%license-route-learn-more
{
  @extend %panel;
  box-shadow: none;
  padding: var(--padding-y) var(--padding-x);
  width: 40%;
  min-width: 413px;
  margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
  @extend %display-300-semibold;
}
%license-route-learn-more header {
  margin-bottom: 1rem; /* 16px */
}
/**

```

```

* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

```

```

.consul-intention-permission-list {
  dt::before {
    @extend %with-glyph-icon;
  }
  dl.permission-methods dt::before {
    content: 'M';
  }
  dl.permission-path dt::before {
    content: 'P';
  }
  dl.permission-header dt::before {
    content: 'H';
  }
}

```



```
}  
/**  
 * Copyright (c) HashiCorp, Inc.  
 * SPDX-License-Identifier: BUSL-1.1  
 */
```

```
.consul-intention-permission-list {  
  .detail > div {  
    display: flex;  
    width: 100%;  
  }  
  strong {  
    margin-right: 8px;  
  }  
}  
/**  
 * Copyright (c) HashiCorp, Inc.  
 * SPDX-License-Identifier: BUSL-1.1  
 */
```

```
.consul-intention-permission-header-list {  
  dt::before {  
    @extend %with-glyph-icon;  
    content: 'H';  
  }  
}
```

layout: docs

page_title: Enterprise Licenses

description: >-

Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.

Consul Enterprise License

Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> **** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.

This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.

Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.

For server agents this means that they must either have the [`license_path``](/consul/docs/agent/config/config-files#license_path)

configuration set or have a license configured in the servers environment with the ``CONSUL_LICENSE`` or ``CONSUL_LICENSE_PATH`` environment variables. Both the configuration item and the ``CONSUL_LICENSE_PATH``

environment variable point to a file containing the license whereas the ``CONSUL_LICENSE`` environment variable should contain the license as the value. If multiple variables are set, the following order of precedence applies:

1. ``CONSUL_LICENSE`` environment variable
2. ``CONSUL_LICENSE_PATH`` environment variable
3. `license_path`` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)

may also be licensed in the very same manner.

However, to avoid the need to configure the license on many client agents and snapshot agents, those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.

- ****If you used the ``CONSUL_LICENSE`` environment variable****: After updating the environment variable, restart the affected agents.

- ****If you used the ``CONSUL_LICENSE_PATH`` environment variable****: Update the license file first. Then, restart the affected agents.

- ****If you used the `license_path`` configuration item\*\***: Update the license file first. Then, run [``consul reload``](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client

actually joins the cluster, where to make those RPC requests to is inferred from the `[`retry_join`](/consul/docs/agent/config/config-files#retry_join)` configuration. If ``retry_join`` is unset or no `[`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent)` is set then the client agent will immediately shut itself down.

If all preliminary checks

pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. ``CONSUL_LICENSE`` environment variable
2. ``CONSUL_LICENSE_PATH`` environment variable
3. ``license_path`` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,

the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

```
{{!
```

```
Copyright (c) HashiCorp, Inc.
```

```
SPDX-License-Identifier: BUSL-1.1
```

```
}}
```

```
{{#if isVisible}}
```

```
<Hds::Alert @type="inline" class="mb-3 mt-2 agentless-node-notice" data-test-node-agentless-notice as |A|>
```

```
<A.Title>
```

```
<span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
```

```
<Hds::Button
```

```
@color='secondary'
```

```
@text='Dismiss notice'
```

```
{{on 'click' this.dismissAgentlessNotice}}
```

```
@icon='x'
```

```
@size='small'
```

```
@isIconOnly={{true}}
```

```
/>
```

```
</A.Title>
```

```
<A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
```

```
<A.Link::Standalone @href="{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
```

```
@text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
```

```
@icon='docs-link'
```

```

        @iconPosition='trailing' />
    </Hds::Alert>
    {{/if}}
    /*!
    * QUnit 2.19.4
    * https://qunitjs.com/
    *
    * Copyright OpenJS Foundation and other contributors
    * Released under the MIT license
    * https://jquery.org/license
    */
    {!!
    Copyright (c) HashiCorp, Inc.
    SPDX-License-Identifier: BUSL-1.1
    }}

    <Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
    <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
    <A.Link::Standalone
    @text={{t "components.consul.intention.notice.permissions.footer"}}
    @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
    @icon="docs-link"
    @iconPosition="trailing"
    @size="small"
    />
    </Hds::Alert>
    License text copyright (c) 2020 MariaDB Corporation Ab, All Rights Reserved.
    "Business Source License" is a trademark of MariaDB Corporation Ab.

```

Parameters

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```
{
  "name": "envoy.filters.http.jwt_authn",
  "typedConfig": {
    "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
    "providers": {
      "auth0": {
        "issuer": "another-issuer",
        "payloadInMetadata": "jwt_payload_auth0",
        "remoteJwks": {
          "asyncFetch": {
            "fastListener": true
          },
          "httpUri": {
            "cluster": "jwks_cluster_auth0",
            "timeout": "1s",
            "uri": "https://example-auth0.com/.well-known/jwks.json"
          }
        }
      },
      "okta": {
        "issuer": "test-issuer",
        "payloadInMetadata": "jwt_payload_okta",
```

```

"remoteJwks": {
  "asyncFetch": {
    "fastListener": true
  },
  "httpUri": {
    "cluster": "jwks_cluster_okta",
    "timeout": "1s",
    "uri": "https://example-okta.com/.well-known/jwks.json"
  }
},
"rules": [
  {
    "match": {
      "prefix": "/"
    },
    "requires": {
      "requiresAll": {
        "requirements": [
          {
            "requiresAny": {
              "requirements": [
                {
                  "providerName": "okta"
                },
                {
                  "allowMissingOrFailed": {}
                }
              ]
            }
          }
        ],
        "requiresAny": {
          "requirements": [
            {
              "providerName": "auth0"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  }
]
}

```

```

    }
  ]
}
}
{{!
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}}

<div
...attributes
class="consul-intention-permission-form"
>
<FormGroup
@name={{ name }}
as |group|>

{{yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)

  isDirty=(and changeset.isValid)
  changeset=changeset
)}}

<fieldset>
<div data-property="action">
  <span class="label">
    Should this permission allow the source connect to the destination?
  </span>
  <div role="radiogroup" class={{ if changeset.error.Action 'has-error' }}>
    {{#each intents as |intent|}}
      <label>
        <span>{{capitalize intent}}</span>
        <input
          type="radio"
          name="Action"
          value={{ intent }}
          checked={{ if (eq changeset.Action intent) 'checked' }}
          onchange={{ action (changeset-set changeset 'Action') value="target.value" }}
        />
      </label>
    {{/each}}
  </div>
</div>
</fieldset>

<fieldset>

```



```

<header>
  <h2>Path</h2>
</header>
<div>
  <group.Element
    @name="PathType"
    @type="select"
  as |el|>
    <el.Label>
      Path type
    </el.Label>
    <PowerSelect
      @options={{ pathTypes }}
      @selected={{ pathType }}
      @onChange={{ action 'change' 'HTTP.PathType' changeset }} as |Type|>
        {{ get pathLabels Type }}
      </PowerSelect>
    </group.Element>

    {{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{ changeset-get changeset 'error.HTTP.Path' }}
      as |el|>
        <el.Label>
          {{ get pathLabels pathType }}
        </el.Label>
        <el.Text
          @value={{ changeset-get changeset 'HTTP.Path' }}
          oninput={{ action 'change' 'HTTP.Path' changeset }}
        />
        <State @state={{ el.state }} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
    {{/if}}

  </div>
</fieldset>

<fieldset>

```

```

<h2>Methods</h2>
<div class="type-toggle">
  <span>All methods are applied by default unless specified</span>
  <group.Element
    @name="allMethods"
  as |el|>
    <el.Checkbox
      checked={{ if allMethods 'checked' }}
      onchange={{ {action 'change' 'allMethods' changeset} }}
    />
    <el.Label>
      All Methods
    </el.Label>
  </group.Element>
</div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{ method }}

checked={{ {if (includes method changeset.HTTP.Methods) 'checked'}}
      onchange={{ {action 'change' 'method' changeset} }}
        />
        <span>{{ method }}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
</fieldset>

<fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{ {changeset-get changeset 'HTTP.Header'}}
    @ondelete={{ {action 'delete' 'HTTP.Header' changeset} }}
  as |headerList|>

</Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{ {action 'add' 'HTTP.Header' changeset} }}
  as |headerForm|>

```

```

<Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<Hds::ButtonSet>
  <Hds::Button
    data-test-add-header
    @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
    @color='primary'
    disabled={{if (not this.headerForm.isDirty)
'disabled'}}
    onclick={{action this.headerForm.submit}}
  />
  <Hds::Button
    @text='Cancel'
    @color='secondary'
    onclick={{action this.headerForm.reset}}
  />
</Hds::ButtonSet>
</fieldset>
</FormGroup>
</div>

```

1.338 genproto-googleapis-api 0.0.0-20241007155032-5fef90f89a9

1.338.1 Available under license :

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1.339 temporalio-sqlparser 0.0.0-20231115171017-f4060bcfa6cb

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Started this project and maintained it.

Andrew Brampton 2017

Merged in multiple upstream fixes/changes.

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1.340 go-validator-validator 2.0.1

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1.341 locafero 0.7.0

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1.342 tally 4.1.17-0.20240412215630-22fe011f5ff0

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1.343 viper 1.20.0-alpha.6

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1.344 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.345 sarama 1.43.3

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1.346 streammonkey-size 0.0.1

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1.347 cwm-cwm-x24-services-common-db 0.0.0-20250224121306-1ba62ef747a5

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{
  "$schema": "../../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../../dist/cwm/admin",
  "lib": {
    "entryFile": "public-api.ts"
  }
}

{
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  "dest": "../../dist/cwm/forms",
  "lib": {
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  }
}

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  "lib": {
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  }
}

{
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  "dest": "../../dist/cwm/common",
  "lib": {
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  }
}

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  "lib": {
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  }
}

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  "lib": {
    "entryFile": "public-api.ts"
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}

{
  "$schema": "../../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../../dist/cwm/job-manager",
  "lib": {
    "entryFile": "public-api.ts"
  }
}
```

```

}
{
  "$schema": "../../node_modules/ng-packagr/ng-package.schema.json",
  "dest": "../../dist/cwm-lib",
  "assets": [
    "assets"
  ],
  "lib": {
    "entryFile": "src/public-api.ts"
  },
  "allowedNonPeerDependencies": [
    "."
  ]
}

```

1.348 go-humanize 1.0.0

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1.349 mock 1.6.0

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1.350 pgtype 1.14.4

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1.351 pax-utils 1.3.8-r1

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1.352 prometheus-common 0.60.0

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1.354 contrib-instrumentation-

google.golang.org-grpc-otelgrpc 0.59.0

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1.358 bigfft 0.0.0-20230129092748-24d4a6f8daec

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1.359 float16 0.8.4

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1.360 protobuf 1.5.4

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1.361 x-sys 0.18.0

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1.362 dig 1.17.1

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1.363 gopsutil 4.24.8

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27287199

27287880

27287883

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1.364 jinja 3.1.4

1.364.1 Available under license :

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1.365 opentelemetry-operations-go-internal-resourcemapping 0.49.0

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"
```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)

```

```

*p = x
return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}

```

```

Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":           1,
    "WRITER":           2,
    "READER":           3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//

```

```

// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]

```

```

if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
    File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,

```


0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,

```

0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
    }
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
        google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
        google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
}

```

```

2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
    }
}
```

```

    }
    // TODO: Use resp.
    _ = resp
}
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c

```

```

}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {

```

```

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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
    dUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {

```

```

// TODO: Handle error.
}
defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
// TODO: Fill request struct fields.
//
See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(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"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }

```

```

op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &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

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*computepb.LicensesListResponse)
    }
}

```

```

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```
}  
// TODO: Use resp.  
_ = resp  
}
```

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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption
    GetIamPolicy []gax.CallOption

```

```

Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,

```

```

    http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.

```

```

func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

```

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *compute.ListLicensesRequest, opts ...gax.CallOption)
*LicensesIterator {
    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 *compute.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*compute.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
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

```



```

// 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,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for

```

```

// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

```

```

url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders,
hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
```

```

func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
        if err != nil {
            return err
        }

        if err := unmarshal(buf, resp); err != nil {
            return err
        }
    })
}

```

```

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// 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 *compute.LicenseListRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.LicenseListRequest)
    unmarshalOptions := &unmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicenseListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        }
    }
}

```

```

    } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
        params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
        params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
    }
    if req != nil && req.ReturnPartialSuccess != nil {
        params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from
    client and context metadata.
    hds := append(c.xGoogHeaders, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
        if err != nil {
            return err
        }
        if err := unmarshal(buf, resp); err != nil {
            return err
        }
    })

```



```

    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds

```

```

:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)

```

```

if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {

```

```

    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

```

```

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

```

```

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //

```



```

// Types that are assignable to AssignmentType:
//
// *AssignmentProtocol_ManualAssignmentType_
// *AssignmentProtocol_AutoAssignmentType_
AssignmentType
isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

```

```

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

```

```

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

```

```

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

```

```

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

```

```

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

```

```

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

```

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

// A license pool represents a pool of licenses that can be assigned to users.

```

type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

```

// Identifier. Format:

// `billingAccounts/{billing\_account}/orders/{order}/licensePool`

Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`

// Required. Assignment protocol for the license pool.

LicenseAssignmentProtocol *AssignmentProtocol

`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"

```

json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
if x != nil {
return x.Name
}

```

```

}
return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

```

```

}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
}

```

```

return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.

```

```

func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
    string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]

```



```

if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
*x = UnassignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

```

```

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
}

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {
ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Optional. The maximum number of users to return. The service may return
// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"

```

```

json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
*x = EnumerateLicensedUsersRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo()
== nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
return x.Parent
}
return ""
}

```

```

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

```

```

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse

```

```

struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{10}
}

```

```

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```



```

}

// Deprecated:
Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
}

```

```

return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protorelect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
    0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x64,
    0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
    0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
    0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
    0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
    0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,

```

0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
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}

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),   // 15: google.protobuf.Duration

```



```

}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depldxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
    7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty

```

```

pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.

```

```

var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in

```

```

*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.

```

```

GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
// Updates the license pool if one exists for this Order.
UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
// Assigns a license to a user.
Assign(context.Context, *AssignRequest)
(*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(GetLicensePoolRequest)
if err := dec(in);

```

```

err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",

```

```

}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

```

```

// group.
Permission_GROUP Permission_GranteeType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this

```



```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,

```

```

0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
(Permission_GrantType)(0),
// 0: google.ai.generativelanguage.v1beta.Permission.GrantType
(Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
(*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

},
GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.366 go-statsd-client-statsd 0.0.0-20200423205355-cb0885a1018c

1.366.1 Available under license :

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1.367 netcat-openbsd 1.226.1.1-r0

1.367.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Upstream-Name: netcat

Files: netcat.c
Copyright: 2001 Eric Jackson <ericj@monkey.org>
License: BSD-3-Clause

Files: nc.1
Copyright: 1996 David Sacerdote
License: BSD-3-Clause

Files: atomicio.*
Copyright: 2006 Damien Miller
 2005 Anil Madhavapeddy
 1995,1999 Theo de Raadt
License: BSD-2-Clause

Files: socks.c
Copyright: 1999 Niklas Hallqvist
 2004, 2005 Damien Miller
License: BSD-2-Clause

Files: Makefile
Copyright: The OpenBSD project
License: BSD-3-Clause

Files: debian/*
Copyright: 2008, 2009, 2010 Decklin Foster <decklin@red-bean.com>
 2008, 2009, 2010 Soren Hansen <soren@ubuntu.com>
 2012 Aron Xu <aron@debian.org>
 2016-2022 Guilhem Moulin <guilhem@debian.org>
License: BSD-3-Clause

Files: debian/checks/* debian/tests/*
Copyright: 2021-2022 Guilhem Moulin <guilhem@debian.org>
License: BSD-3-Clause

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1.368 serverlessworkflow-sdk-go 2.4.2

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1.375 x-tools 0.29.0

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// Package copyright checks that files have the correct copyright notices.

package copyright

```

import (
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "os"
    "path/filepath"
    "regexp"
    "strings"
)

// (used only by tests)
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(), ".") && d.Name() != "." && 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 := os.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/golang/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
            }
        }
    }
    return false
}

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```

```

//go:generate ./gen-licenses.sh licenses.go
package licenses

```

```

const Text = `
-- github.com/BurntSushi/toml COPYING --

```

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,
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package copyright

```
import (  
    "strings"  
    "testing"  
)  
  
func TestToolsCopyright(t *testing.T) {  
    files, err := checkCopyright("../")  
    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"))  
    }  
}  
  
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```

```

package licenses_test

import (
    "bytes"
    "os"
    "os/exec"
    "runtime"
    "testing"
)

func TestLicenses(t *testing.T) {
    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unixes")
    }
    tmp, err := os.CreateTemp("", "")
    if err != nil {
        t.Fatal(err)
    }
    tmp.Close()

    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
        t.Fatalf("generating licenses failed: %q, %v", out, err)
    }

    got, err := os.ReadFile(tmp.Name())
    if err != nil {
        t.Fatal(err)
    }
    want, err := os.ReadFile("licenses.go")
    if err != nil {
        t.Fatal(err)
    }
    if !bytes.Equal(got, want) {
        t.Error("combined license text needs updating. Run: `go generate ./internal/licenses` from the gopls module.")
    }
}

```

1.376 cloudevents-sdk-go-protocol-

kafka_sarama 2.15.2

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1.377 tre 1.2.5-r10

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1.378 genproto-googleapis-api 0.0.0-20250115164207-1a7da9e5054f

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1.379 gosplitargs 0.0.0-20230310130726-7d16e488436a

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1.380 go-xerial-snappy 0.0.0-20230731223053-c322873962e3

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1.381 go-codec 1.2.12

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1.382 shadow 4.16.0-r1

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# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
tree.h
"
buildldir="$srcdir"
options="!check" # just headers

package() {
    mkdir -p "$pkgdir"
    install -Dm644 -t "$pkgdir"/usr/include/sys \
        cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"

```

```

url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
    BSD-Resource-1.2911.tar.gz
"

# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

```



```

replaces="py-flake8-copyright"          # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

package() {
    gpep517 install-wheel --destdir "$pkgdir" \
        .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
    flake8-copyright-0.2.4.tar.gz
"

# Contributor: Dhruvin Gandhi <contact@dhruvin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/_pkgname/_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

```

```
package() {
python3 -m installer -d "$pkgdir" \
.dist/*.whl
}
```

```
sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
license_expression-30.4.0.tar.gz
"
# License
```

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```
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license tag for each file to get additional information.
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
0001-bsd-games-scores-dir.patch
"
options="!check" # no tests
```

```
build() {
# some GNU autoconf options are ignored, but it works
./configure \
--build=$CBUILD \
--host=$CHOST \
--prefix=/usr \
--sysconfdir=/etc \
--mandir=/usr/share/man \
--sourcedir=/usr/share/$pkgname
make
```

```

}

package() {
    make DESTDIR="$pkgdir" install
    install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
    bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"

# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
buildid="$_srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
    subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
    mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname=$pkgver-r$pkgrel"
    mkdir -p "$subpkgdir"/usr/share/spdx
    cp -r "$buildid"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
    pkgdesc="$pkgdesc (licence list)"
}

```

```

mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in "$builddir"/text/*.txt;
do
    local license=${i##*/}
    echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"

mini_sendmail - accept email on behalf of real sendmail

```

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1.383 python-certifi 2024.08.30

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt> It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.384 cbor 2.7.0

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1.385 gin 1.10.0

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1.386 errwrap 1.1.0

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localtime.go, localtime_test.go:

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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1.389 relvacode-iso8601 1.6.0

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1.390 pcre2 10.43-r0

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1.391 go-md2man 2.0.2

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1.392 sqlx 1.4.0

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1.393 prometheus-client-model 0.6.1

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1.394 x-sys 0.30.0

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1.395 cloudevents-sdk-go-protocol-amqp

2.15.2

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1.396 toml 2.0.1

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1.397 modernc-mathutil 1.5.0

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1.398 py3-pip 24.3.1-r0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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#
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```

For the lib/nodejs/lib/thrift/json_parse.js:

/*

json_parse.js

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*/

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

/* socketpair.c

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*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio

// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

//

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//  
////////////////////////////////////
```

Codegen template

in t_html_generator.h

* Bootstrap v2.0.3

*

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*

* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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1.401 libmd 1.1.0-r0

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Files:

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Files:

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src/sha2.c

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src/rmd160.c

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src/md2.c

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Files:

man/rmd160.3

man/sha1.3

man/sha2.3

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man/mdX.3

src/helper.c

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src/md4.c

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Todd C. Miller modified the MD5 code to do MD4 based on RFC 1186.

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

```

```

}
}
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package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {

```

```

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 := procurement.NewLicenseManagementRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseManagementClient_Assign() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
    dUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}

}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &procurementpb.GetLicensePoolRequest{
    // TODO: Fill request struct fields.
    //
    See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
    quest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(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/compute_pb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    // require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```



```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {

```

```

// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*compute.LicensesListResponse)
    }
}

func

```

```

ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
// generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.

```

```
_ = resp  
}
```

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert []gax.CallOption

```

```
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}
```

```

    }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    }
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {

```

```

return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

```

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *compute.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 *compute.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*compute.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
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// 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,
logger: internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
internaloption.EnableNewAuthLibrary(),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```

func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```



```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders,
hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,

```

```

opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
        if err != nil {
            return err
        }

        if err := unmarshalOptions.Unmarshal(buf, resp); err != nil {
            return err
        }
    })
}

```

```

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// 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 *compute.LicenseListRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.LicenseListRequest)
    unmarshalOptions := &unmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicenseListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {

```

```

req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }
}

```

```

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
hds

```

```

:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)

```



```

if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {

```

```

    return nil, e
}
return resp, nil
}
// Copyright 2025 Google LLC
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// You may obtain a copy of the License at
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// https://www.apache.org/licenses/LICENSE-2.0
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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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

// Copyright 2025 Google LLC
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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. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
// Verify that this generated code is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
// The default value. This value is unused.
Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
// Represents a user. When set, you must provide email_address for the user.
Permission_USER Permission_GrantType = 1
// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
Permission_GrantType_name = map[int32]string{
0: "GRANTEE_TYPE_UNSPECIFIED",
1: "USER",
2:
"GROUP",
3: "EVERYONE",
}
Permission_GrantType_value = map[string]int32{
"GRANTEE_TYPE_UNSPECIFIED": 0,
"USER": 1,
"GROUP": 2,
"EVERYONE": 3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
p := new(Permission_GrantType)

```

```

*p = x
return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }

```

```

Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":            1,
    "WRITER":           2,
    "READER":           3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//

```

```

// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]

```

```

if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
    File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,

```

0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
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0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,


```

0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
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0x72, 0x6f, 0x6c, 0x65, 0x42,
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0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0),    // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),      // 2: google.ai.generativelanguage.v1beta.Permission
}

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type

```

```

2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

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```

```
// Code generated by protoc-gen-go. DO NOT EDIT.  
// versions:  
// protoc-gen-go v1.35.2  
// protoc v4.25.3  
// source: google/ai/generativelanguage/v1alpha/permission.proto
```

```
package generativelanguagepb
```

```
import (  
    reflect "reflect"  
    sync "sync"
```

```
    _ "google.golang.org/genproto/googleapis/api/annotations"  
    protorelect "google.golang.org/protobuf/reflect/protorelect"  
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"  
)
```

```
const  
(  
    // Verify that this generated code is sufficiently up-to-date.  
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)  
    // Verify that runtime/protoimpl is sufficiently up-to-date.  
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)  
)
```

```
// Defines types of the grantee of this permission.  
type Permission_GranteeType int32
```

```
const (  
    // The default value. This value is unused.  
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0  
    // Represents a user. When set, you must provide email_address for the user.  
    Permission_USER Permission_GranteeType = 1  
    // Represents a group. When set, you must provide email_address for the  
    // group.  
    Permission_GROUP Permission_GranteeType = 2  
    // Represents access to everyone. No extra information is required.  
    Permission_EVERYONE Permission_GranteeType = 3  
)
```

```
// Enum value maps for Permission_GranteeType.  
var (  
    Permission_GranteeType_name = map[int32]string{
```

```

0: "GRANTEE_TYPE_UNSPECIFIED",
1: "USER",
2:
"GROUP",
3: "EVERYONE",
}
Permission_GrantType_value = map[string]int32{
"GRANTEE_TYPE_UNSPECIFIED": 0,
"USER":                      1,
"GROUP":                     2,
"EVERYONE":                  3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
p := new(Permission_GrantType)
*p = x
return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0

```

```

// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.

```



```

func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

```

```

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }

```

```

}
return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
    0x4e,
    0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,

```

```

0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

```

```

}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
        EnumInfos:     file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
        MessageInfos:  file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
    = nil
    file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil

```

```

file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status

```

```

"google.golang.org/grpc/status"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]

```

```

if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

```



```

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
if x != nil {
return x.Name
}
return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
if x != nil {
return x.LicenseAssignmentProtocol
}
return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
if x != nil {
return x.AvailableLicenseCount
}
return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
if x != nil {
return x.TotalLicenseCount
}
return 0
}

```

```

// Request message for getting a
license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {

```

```

if x != nil {
    return x.Name
}
return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
    return ms
}

```

```

}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].

```

```

type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

unknownFields protoimpl.UnknownFields

// Required. License pool name.

Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`

// Required. Username.

// Format: `name@domain.com`.

Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`

}

func (x *UnassignRequest) Reset()

{

*x = UnassignRequest{}

mi :=

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

ms.StoreMessageInfo(mi)

}

func (x *UnassignRequest) String() string {

return protoimpl.X.MessageStringOf(x)

}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {

mi :=

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]

if x != nil {

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

if ms.LoadMessageInfo() == nil {

ms.StoreMessageInfo(mi)

}

return ms

}

return mi.MessageOf(x)

}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.

func (*UnassignRequest) Descriptor() ([]byte, []int) {

return

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

[]int{6}

}

func (x *UnassignRequest) GetParent() string {

if x != nil {

return


```

x.Parent
}
return ""
}

func (x *UnassignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
*x = UnassignResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {
ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)

```

```

}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
// LicenseManagementService.EnumerateLicensedUsers[[google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

    if ms.LoadMessageInfo()
    == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //

```

```

Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {

```

```

    return x.Username
}
return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {

```

```

*x = AssignmentProtocol_ManualAssignmentType{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    }

```


0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
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0x6f,
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0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
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0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
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0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
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0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
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0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,

```

0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =

```

```

[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),           // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),          // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),         // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t

```

```

type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
-> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{

```



```

File:
protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
  NumEnums:    0,
  NumMessages: 13,
  NumExtensions: 0,
  NumServices: 1,
},
GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
  // Gets the license pool.
  GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
  // Updates the license pool if one exists for this Order.
  UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
  // Assigns a license to a user.
  Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
  // Unassigns a license from a user.
  Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
  // Enumerates all users assigned a license.

```

```

EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts

```

```

...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

```

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible implementations.

```

type UnimplementedLicenseManagementServiceServer struct {
}

```

```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

```

```

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,

```

```

*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
}

```

```

}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
}

```

```

return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(EnumerateLicensedUsersRequest)
if err := dec(in); err != nil {
return nil, err
}
if
interceptor == nil {
return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
HandlerType: (*LicenseManagementServiceServer)(nil),
Methods: []grpc.MethodDesc{
{
MethodName: "GetLicensePool",
Handler:    _LicenseManagementService_GetLicensePool_Handler,
},
{
MethodName: "UpdateLicensePool",
Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
},
{
MethodName: "Assign",
Handler:    _LicenseManagementService_Assign_Handler,
},
{
MethodName: "Unassign",
Handler:    _LicenseManagementService_Unassign_Handler,
},
{
MethodName: "EnumerateLicensedUsers",

```

```
Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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1.403 otel-sdk 1.31.0

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1.404 sqlx 1.3.5

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1.405 libucontext 1.3.2-r0

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1.406 genproto-googleapis-rpc 0.0.0-20250115164207-1a7da9e5054f

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1.407 tre 0.8.0-r2

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1.408 dig 1.15.0

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1.409 prometheus-client 1.20.4

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See <https://github.com/beorn7/perks/blob/master/README.md> for license details.

Go support for Protocol Buffers - Google's data interchange format

<http://github.com/golang/protobuf/>

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.412 ilewin-gojq 0.0.0-20240229151830-a95af0839f39

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1.414 kubernetes-yaml 1.4.0

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  }
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  ],
  "lib": {
    "entryFile": "src/public-api.ts"
  },
  "allowedNonPeerDependencies": [
    "."
  ]
}

```

1.422 multierr 1.11.0

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1.424 gdbm 1.24-r0

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1.425 google-cloud-go-storage 1.50.0

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"
```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
}

```

```

return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{

```



```

"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":         2,
"READER":         3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference

```

```

// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message {
    {
        mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
        if x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,

```

0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,

```

0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
}

```

```

2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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//

```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
    }
}

```

```

    _ = resp
}
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```



```

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
    dUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
    // TODO: Fill request struct fields.
    //
    See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(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/compute_pb"
    "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/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {

```

```

// TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*compute.LicensesListResponse)
    }
}

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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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert []gax.CallOption

```

```
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}
```



```

    }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    }
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {

```

```

return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

```

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// 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,
logger: internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
internaloption.EnableNewAuthLibrary(),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```

func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *compute.GetLicenseRequest, opts ...gax.CallOption)
(*compute.License, error) {
    baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders,
hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,

```

```

opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
        if err != nil {
            return err
        }

        if err := unmarshalOptions.Unmarshal(buf, resp); err != nil {
            return err
        }
    })
}

```



```

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// 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 *compute.LicenseListRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.LicenseListRequest)
    unmarshalOptions := &proto.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicenseListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {

```

```

req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }
}

```

```

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
hds

```

```

:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)

```

```

if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], 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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {

```

```

    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

```

```

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```



```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

```

```

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //

```

```

// Types that are assignable to AssignmentType:
//
// *AssignmentProtocol_ManualAssignmentType_
// *AssignmentProtocol_AutoAssignmentType_
AssignmentType
isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

```

```

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

```

```

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

```

```

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

```

```

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

```

```

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

```

```

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

```

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

// A license pool represents a pool of licenses that can be assigned to users.

```

type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

```

// Identifier. Format:

// `billingAccounts/{billing\_account}/orders/{order}/licensePool`

Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`

// Required. Assignment protocol for the license pool.

LicenseAssignmentProtocol *AssignmentProtocol

```

`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"

```

```

json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
if x != nil {
return x.Name
}

```

```

}
return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

```



```

}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
}

```

```

return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.

```

```

func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
    string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]

```

```

if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
*x = UnassignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

```

```

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
}

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {
ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Optional. The maximum number of users to return. The service may return
// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"

```

```

json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

```

```

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

```



```

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse

```

```

struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{10}
}

```

```

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated:
Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
}

```

```

return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protorelect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
    0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x64,
    0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
    0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
    0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
    0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
    0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,

```

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}

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),   // 15: google.protobuf.Duration

```

```

}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
    -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
    > google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
    google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
    google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
    google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
    -> google.protobuf.Timestamp
    9, // 7:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
    google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
    ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
    > google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
    google.cloud.commerce.consumer.procurement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
    -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    8, // 13:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_ty
    pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    1, // 14:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
    google.cloud.commerce.consumer.procurement.v1.LicensePool
    1, // 15:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
    google.cloud.commerce.consumer.procurement.v1.LicensePool
    5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
    google.cloud.commerce.consumer.procurement.v1.AssignResponse
    7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
    google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    10, // 18:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty

```

```

pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.

```

```

var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in

```

```

*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.

```

```

GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
// Updates the license pool if one exists for this Order.
UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
// Assigns a license to a user.
Assign(context.Context, *AssignRequest)
(*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(GetLicensePoolRequest)
if err := dec(in);

```



```

err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",

```

```

}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

```



```

// group.
Permission_GROUP Permission_GranteeType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativeai_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,

```

```

0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
(Permission_GrantType)(0),
// 0: google.ai.generativelanguage.v1beta.Permission.GrantType
(Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
(*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

},
GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

1.426 golang-protobuf-extensions 1.0.4

1.426.1 Available under license :

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1.427 cwm-cwm-x24-services-common-logger 0.0.0-20250224121306-1ba62ef747a5

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{
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    "assets"
  ],

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"lib": {  
  "entryFile": "src/public-api.ts"  
},  
"allowedNonPeerDependencies": [  
  "."  
]  
}
```

1.428 go.temporal.io-api 1.43.2

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1.429 gojsonpointer 0.0.0-20190905194746-02993c407bfb

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1.430 pyparsing 3.1.4

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1.431 jaeger-client-go 2.22.1

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1.432 xsync 1.5.2

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1.433 go-runewidth 0.0.15

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1.434 env 11.3.1

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1.435 jwilder-dockerize 0.9.2

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1.436 procs 0.15.1

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.437 wget 1.25.0-r1

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Version 3, 29 June 2007

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1.438 enterprise-certificate-proxy 0.3.4

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1.439 contrib-detectors-gcp 1.34.0

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1.440 libunistring 1.2-r0

1.440.1 Available under license :

/* Copyright (C) 2001-2002, 2004-2010 Free Software Foundation, Inc.
Written by Paul Eggert, Bruno Haible, Sam Steingold, Peter Burwood.
This file is part of gnulib.

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Written by Bruno Haible <bruno@clisp.org>, 2006.

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Version 3, 29 June 2007

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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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- d) Do one of the following:
 - 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of

the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.441 aws-sdk-go-v2-service-swf 2.0.0

1.441.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns  
...func(*Options)) (*ListReceivedLicensesOutput, error) {  
    if params == nil {  
        params = &ListReceivedLicensesInput{}  
    }  
}
```

```
    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,  
c.addOperationListReceivedLicensesMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
}
```

```
    out := result.(*ListReceivedLicensesOutput)
```

```

    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - ProductSKU
    //
    // - Status
    //
    //
    // - Fingerprint
    //
    // - IssuerName
    //
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {

```



```

if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
    return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err =

```

```

addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return
err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {

```

```

    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "ListReceivedLicenses",
}
}
DeleteLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing

```

Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
name: License Scan

on: [pull_request]

jobs:

licensescan:

name: License Scan

runs-on: ubuntu-latest

strategy:

matrix:

python-version: [3.9]

steps:

- name: Checkout target

uses: actions/checkout@v2

with:

path: sdkbase

ref: \${ { github.base_ref } }

- name: Checkout this ref

uses: actions/checkout@v2

with:

path: new-ref

fetch-depth: 0

- name: Get Diff

run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT \${ { github.event.pull_request.base.sha } }
\${ { github.sha } } > refDiffFiles.txt

- name: Get Target Files

run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode

uses: actions/checkout@v2

with:

repository: nexB/scancode-toolkit

path: scancode-toolkit

fetch-depth: 1

- name: Set up Python \${ { matrix.python-version } }

uses: actions/setup-python@v2

with:

python-version: \${ { matrix.python-version } }

```

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi

```

ListLicenses

```

Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody

```

```

CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    //
    The ID of the workspace to remove the Grafana Enterprise license from.
    //

```

```

// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if
err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
}

```



```

if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options);
err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }
}
```

```
if err = addLegacyEndpointContextSetter(stack, options); err !=
nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
}
```

```

if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
!= nil {
    return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {

```

```

    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if
err = addSpanBuildRequestStart(stack); err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // - Beneficiary
    //
    // - ProductSKU
    //
    // - Fingerprint
    //
    // - Status
    Filters
    []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
        return err
    }

```

```

}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);

```

```

err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack);
err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {

```



```

    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "ListLicenses",
}
}
DisassociateLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody

```

```

ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpStatusCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        }
      ]
    }
  }
}

```

```

{
  "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
  "target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
  "target": "com.amazonaws.licensemanager#CreateGrant"
},
{
  "target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
  "target": "com.amazonaws.licensemanager#CreateLicense"
},
{
  "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
  "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
  "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
  "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
  "target": "com.amazonaws.licensemanager#CreateToken"
},
{
  "target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
  "target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
  "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
  "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
  "target": "com.amazonaws.licensemanager#DeleteToken"
},
{
  "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"
}

```

```

},
{
  "target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
  "target": "com.amazonaws.licensemanager#GetGrant"
},
{
  "target": "com.amazonaws.licensemanager#GetLicense"
},
{
  "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
  "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
  "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
  "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
  "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
  "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
  "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
  "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
  "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
  "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
  "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
  "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
  "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
}

```

```

},
{
    "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
    "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
    "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
    "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
    "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
    "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
    "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
    "target": "com.amazonaws.licensemanager#ListTokens"
},
{
    "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
    "target": "com.amazonaws.licensemanager#RejectGrant"
},
{
    "target": "com.amazonaws.licensemanager#TagResource"
},
{
    "target": "com.amazonaws.licensemanager#UntagResource"
},
{
    "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
    "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
    "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{

```

```

    "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
  }
],
"traits": {
  "aws.api#service": {
    "sdkId": "License Manager",
    "arnNamespace": "license-manager",
    "cloudFormationName": "LicenseManager",
    "cloudTrailEventSource": "license-manager.amazonaws.com",
    "endpointPrefix": "license-manager"
  },
  "aws.auth#sigv4": {
    "name": "license-manager"
  },
  "aws.protocols#awsJson1_1": {},
  "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software vendors across multiple \n      Amazon Web Services accounts and on-premises servers.</p>",
  "smithy.api#title": "AWS License Manager",
  "smithy.api#xmlNamespace": {
    "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
  },
  "smithy.rules#endpointRuleSet": {
    "version": "1.0",
    "parameters": {
      "Region": {
        "builtIn": "AWS::Region",
        "required": false,
        "documentation": "The AWS region used to dispatch the request.",
        "type": "String"
      },
      "UseDualStack": {
        "builtIn": "AWS::UseDualStack",
        "required": true,
        "default": false,
        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
        "type": "Boolean"
      },
      "UseFIPS": {
        "builtIn": "AWS::UseFIPS",
        "required": true,
        "default": false,
        "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
        "type": "Boolean"
      },
      "Endpoint": {

```

```

        "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }
        ]
    }
],
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ]
    },
    {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ]
    },
    ],

```

```

        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ]
},
"rules": [
    {
        "conditions": [
            {
                "fn": "aws.partition",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [

```



```

        {
            "ref": "UseFIPS"
        },
true
    ]
},
{
    "fn": "booleanEquals",
    "argv": [
        {
            "ref": "UseDualStack"
        },
        true
    ]
}
],
"rules": [
    {
        "conditions": [
            {
"fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            }
        ]
    },

    {
        "fn": "booleanEquals",
        "argv": [
            true,
            {
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                ]
            }
        ]
    }
]

```

```

        ]
    }
    ],
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",

```

```

        "argv": [
            {
                "fn": "getAttr",
                "argv": [

                    {
                        "ref": "PartitionResult"
                    },
                    "supportsFIPS"
                ]
            },
            true
        ]
    },
    ],
    "rules": [
        {
            "conditions": [],
            "endpoint": {

                "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}

],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
            ],
            true
        }
    ]
}

```

```

    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ]
    }
  ],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  "type": "tree"
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [],

```

```

        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},

            "headers": {}
        },
        "type": "endpoint"
    }
],
"type": "tree"
}
},
"type": "tree"
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        }
    ]
}

```

```

    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-3",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
},
{
  "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-south-1.amazonaws.com"
    }
  }
}

```

```

    },
    "params": {
      "Region": "ap-south-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-1.amazonaws.com"
      }
    }
  }
},
{
  "params": {
    "Region": "ap-southeast-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-2.amazonaws.com"
    }
  }
},
{
  "params": {
    "Region": "ap-southeast-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-southeast-3.amazonaws.com"
    }
  }
},
{
  "params": {
    "Region": "ap-southeast-3",
    "UseFIPS": false,
    "UseDualStack": false
  }
},

```

```

{
  "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ca-central-1.amazonaws.com"
    }
  },

  "params": {
    "Region": "ca-central-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-central-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-central-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-north-1 with
FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-north-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "eu-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-south-1.amazonaws.com"
    }
  },

```



```

        "params": {
            "Region":
"eu-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-west-4 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-4.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-west-4",
            "UseFIPS": false,
            "UseDualStack": false
        }
    }
]

```

```

{
  "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.me-south-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "me-south-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "sa-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {

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        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-2.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-2",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-2",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-west-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-west-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",

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    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-west-1.amazonaws.com"
      }
    },
    "params": {

"Region": "us-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-2",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-west-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-west-2",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",

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        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
}
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {

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        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
}

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    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
      }
    }
  },
  {
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-west-1.amazonaws.com"
      }
    }
  },
  {
    "params": {
      "Region": "us-gov-west-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation":
    "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
      }
    }
  },
  {
    "params": {
      "Region": "us-gov-west-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.api.aws"
      }
    }
  }
}

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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{

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    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled
but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  }

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```

    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    }
  }
}

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    },
    "params": {
      "UseFIPS": false,

      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
  }
}

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    },
    "output": {
      "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },

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"com.amazonaws.licensemanager#AcceptGrantResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Grant
ARN.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#GrantStatus",
      "traits": {
        "smithy.api#documentation": "<p>Grant status.</p>"
      }
    },
    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Grant version.</p>"
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {}
    }
  },
  "code": "ServiceAccessDenied",
  "httpResponseCode": 401,
  "smithy.api#documentation": "<p>Access to resource denied.</p>",
  "smithy.api#error": "client",
  "smithy.api#httpError": 401
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
  "type": "enum",
  "members": {

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    "DISTRIBUTED_GRANTS_ONLY": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
      }
    },
    "ALL_GRANTS_PERMITTED_BY_ISSUER": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
      }
    }
  },
  "com.amazonaws.licensemanager#AllowedOperation": {
    "type": "enum",
    "members": {
      "CREATE_GRANT": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "CreateGrant"
        }
      },
      "CHECKOUT_LICENSE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "CheckoutLicense"
        }
      },
      "CHECKOUT_BORROW_LICENSE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "CheckoutBorrowLicense"
        }
      },
      "CHECK_IN_LICENSE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "CheckInLicense"
        }
      },
      "EXTEND_CONSUMPTION_LICENSE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "ExtendConsumptionLicense"
        }
      }
    }
  }
}

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    },
    "LIST_PURCHASED_LICENSES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "ListPurchasedLicenses"
      }
    },
    "CREATE_TOKEN": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "CreateToken"
      }
    }
  },
  "com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
      "smithy.api#length": {
        "min": 1,
        "max":
8
      }
    }
  },
  "com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
      "smithy.api#length": {
        "min": 0,
        "max": 2048
      },
      "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=, @.-]{0,1023}$"
    }
  },
  "com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#Arn"
    }
  },
  "com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
    "members": {

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    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "aws.protocols#awsQueryError":
  {
    "code": "AuthorizationFailure",
    "httpResponseCode": 403
  },
    "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n      policy associated with this account.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 403
  }
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
  "type": "structure",
  "members": {
    "LastRunTime": {
      "target": "com.amazonaws.licensemanager#DateTime",
      "traits": {
        "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes automated discovery.</p>"
  }
},

"com.amazonaws.licensemanager#Boolean": {
  "type": "boolean",
  "traits": {
    "smithy.api#default": false
  }
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
  "type": "structure",
  "members": {
    "AllowEarlyCheckIn": {
      "target": "com.amazonaws.licensemanager#BoxBoolean",
      "traits": {
        "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "MaxTimeToLiveInMinutes": {

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        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
            "smithy.api#required": {}
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            }
        ],
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        }
    }

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    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
  }
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
  "type": "structure",
  "members": {
    "LicenseConsumptionToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License consumption token.</p>",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License beneficiary.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
  "type": "structure",
  "members": {},
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
  },

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```

"output": {
  "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
  {
    "target": "com.amazonaws.licensemanager#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#RedirectException"
  },
  {
    "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  },
  {
    "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
  },
  {
    "target": "com.amazonaws.licensemanager#ValidationException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
  "type": "structure",
  "members": {
    "LicenseArn": {

```

```

    "target": "com.amazonaws.licensemanager#Arn",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
      "smithy.api#required": {}
    }
  },
  "Entitlements": {
    "target": "com.amazonaws.licensemanager#EntitlementDataList",
    "traits": {
      "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
      "smithy.api#required": {}
    }
  },
  "DigitalSignatureMethod": {
    "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
    "traits": {
      "smithy.api#documentation": "<p>Digital signature method. The possible
value is JSON Web Signature (JWS) algorithm PS384.\n      For more information, see <a
href='\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
      "smithy.api#required": {}
    }
  },
  "NodeId": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Node ID.</p>"
    }
  },
  "CheckoutMetadata": {
    "target": "com.amazonaws.licensemanager#MetadataList",
    "traits": {
      "smithy.api#documentation": "<p>Information about constraints.</p>"
    }
  },
  "ClientToken": {
    "target": "com.amazonaws.licensemanager#ClientToken",
    "traits": {
      "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "smithy.api#required": {}
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},

```

```

"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
      }
    },
    "LicenseConsumptionToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License consumption token.</p>"
      }
    },
    "EntitlementsAllowed": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
      }
    },
    "NodeId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Node ID.</p>"
      }
    },
    "SignedToken": {
      "target": "com.amazonaws.licensemanager#SignedToken",
      "traits": {
        "smithy.api#documentation": "<p>Signed token.</p>"
      }
    },
    "IssuedAt": {
      "target": "com.amazonaws.licensemanager#ISO8601DateTime",
      "traits": {
        "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
      }
    },
    "Expiration": {
      "target": "com.amazonaws.licensemanager#ISO8601DateTime",
      "traits": {
        "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
      }
    },
    "CheckoutMetadata": {

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```

        "target": "com.amazonaws.licensemanager#MetadataList",
        "traits": {
            "smithy.api#documentation": "<p>Information about constraints.</p>"
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target":
"com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
        },
        {

```

```

        "target": "com.amazonaws.licensemanager#ValidationException"
    },
    "traits": {
        "smithy.api#documentation": "<p>Checks out the specified license.</p>\n    <note>\n        <p>If the
account that created the license is the same that is performing the check out, you must\n        specify the account
as the beneficiary.</p>\n    </note>"
    },
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    }
}

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    }
  },
  "Beneficiary": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>License beneficiary.</p>"
    }
  },
  "NodeId": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Node ID.</p>"
    }
  }
},
"traits": {

  "smithy.api#input": {}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
  "type": "structure",
  "members": {
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": "<p>Checkout type.</p>"
      }
    },
    "LicenseConsumptionToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License consumption token.</p>"
      }
    },
    "EntitlementsAllowed": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
      }
    },
    "SignedToken": {
      "target": "com.amazonaws.licensemanager#SignedToken",
      "traits": {
        "smithy.api#documentation": "<p>Signed token.</p>"
      }
    }
  },
  "NodeId": {

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        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Node ID.</p>"
        }
    },
    "IssuedAt": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
        }
    },
    "Expiration": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
        }
    },
    "LicenseArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",

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    "traits": {
      "smithy.api#length": {
        "min": 1,
        "max": 36
      }
    },
    "com.amazonaws.licensemanager#ClientToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
      }
    },
    "com.amazonaws.licensemanager#ConflictException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ConflictException",
          "httpResponseCode":
409
        },
        "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 409
      }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
          }
        },
        "ConsumedLicenses": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {

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        "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
    }
}
},

"traits": {
    "smithy.api#documentation": "<p>Details about license consumption.</p>"
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    }
}

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    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target":
"com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n      entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrantRequest": {
    "type": "structure",
    "members": {
      "ClientToken": {
        "target": "com.amazonaws.licensemanager#ClientToken",
        "traits": {
          "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
          "smithy.api#required": {}
        }
      },
      "GrantName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Grant name.</p>",

```

```

    "smithy.api#required": {}
  },
  "LicenseArn": {
    "target": "com.amazonaws.licensemanager#Arn",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "smithy.api#required": {}
    }
  },
  "Principals": {
    "target": "com.amazonaws.licensemanager#PrincipalArnList",
    "traits": {
      "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p>\n    <ul>\n      <li>\n        <p>An Amazon Web Services account, which includes only the account specified.</p>\n      </li>\n    </ul>\n    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n      </li>\n    </ul>\n    <li>\n      <p>An organization, which will include all accounts across your organization.</p>\n    </li>\n  </ul>",
      "smithy.api#required": {}
    }
  },
  "HomeRegion": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Home Region of the grant.</p>",
      "smithy.api#required": {}
    }
  },
  "AllowedOperations": {
    "target": "com.amazonaws.licensemanager#AllowedOperationList",
    "traits": {
      "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
      "smithy.api#required": {}
    }
  },
  "Tags": {
    "target": "com.amazonaws.licensemanager#TagList",

    "traits": {
      "smithy.api#documentation": "<p>Tags to add to the grant. For more information about tagging support in\n    License Manager, see the <a href=\"https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html\">TagResource</a> operation.</p>"
    }
  },

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```

    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#GrantStatus",
        "traits": {
          "smithy.api#documentation":
            "<p>Grant status.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Grant version.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersion": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      }
    ]
  }
}

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```

    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n      <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
  }
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
  "type": "structure",
  "members": {
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
        "smithy.api#required": {}
      }
    },
    "GrantArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
        "smithy.api#required": {}
      }
    },
    "GrantName": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Grant name.</p>"
      }
    },
    "AllowedOperations": {
      "target": "com.amazonaws.licensemanager#AllowedOperationList",

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```

    "traits": {
      "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
    }
  },
  "Status": {
    "target": "com.amazonaws.licensemanager#GrantStatus",
    "traits": {
      "smithy.api#documentation": "<p>Grant status.</p>"
    }
  },
  "StatusReason": {
    "target": "com.amazonaws.licensemanager#StatusReasonMessage",
    "traits": {
      "smithy.api#documentation": "<p>Grant status reason.</p>"
    }
  },
  "SourceVersion": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Current version of the grant.</p>"
    }
  },
  "Options": {
    "target": "com.amazonaws.licensemanager#Options",
    "traits": {
      "smithy.api#documentation": "<p>The options specified for the grant.</p>"
    }
  }
},
"traits": {
  "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Grant ARN.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#GrantStatus",
      "traits": {
        "smithy.api#documentation": "<p>Grant status.</p>"
      }
    }
  },

```



```

    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>New version of the grant.</p>"
      }
    },
    "traits": {
      "smithy.api#output": {}
    },
    "com.amazonaws.licensemanager#CreateLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {

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```

    "type": "operation",
    "input": {

"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license configuration.</p>\n    <p>A license configuration is an abstraction of a customer license agreement that can be\n    consumed and enforced by License Manager. Components include specifications for the license\n    type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n    Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n    license must be associated with a host), and the number of licenses purchased and used.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        }
    },

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```

    "Description": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
      }
    },
    "LicenseCountingType": {
      "target": "com.amazonaws.licensemanager#LicenseCountingType",
      "traits": {
        "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
        "smithy.api#required": {}
      }
    },
    "LicenseCount": {
      "target": "com.amazonaws.licensemanager#BoxLong",
      "traits": {
        "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
      }
    },
    "LicenseCountHardLimit": {
      "target": "com.amazonaws.licensemanager#BoxBoolean",
      "traits": {
        "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n      blocks the launch of new instances.</p>"
      }
    },
    "LicenseRules": {
      "target": "com.amazonaws.licensemanager#StringList",
      "traits": {
        "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n      vary by dimension, as follows.</p>\n      <ul>\n        <li>\n          <p>\n            <code>Cores</code> dimension: <code>allowedTenancy</code> |\n            <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |\n            <code>minimumCores</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n            <code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n            <code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> | \n            <code>minimumVcpus</code>\n          </p>\n        </li>\n      </ul>\n      <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n      values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n      <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n      <code>True</code> and <code>False</code>.</p>"
      }
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n      vary by dimension, as follows.</p>\n      <ul>\n        <li>\n          <p>\n            <code>Cores</code> dimension: <code>allowedTenancy</code> |\n            <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |\n            <code>minimumCores</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n            <code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n            <code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> | \n            <code>minimumVcpus</code>\n          </p>\n        </li>\n      </ul>\n      <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n      values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n      <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n      <code>True</code> and <code>False</code>.</p>"
    }
  }
}

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    }
  },
  "Tags": {
    "target": "com.amazonaws.licensemanager#TagList",
    "traits": {
      "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
    }
  },
  "DisassociateWhenNotFound": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
    }
  },
  "ProductInformationList": {
    "target": "com.amazonaws.licensemanager#ProductInformationList",
    "traits": {
      "smithy.api#documentation": "<p>Product information.</p>"
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
  },

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"errors": [
  {
    "target": "com.amazonaws.licensemanager#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  },
  {
    "target": "com.amazonaws.licensemanager#ValidationException"
  }
],

"traits": {
  "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
        "smithy.api#required": {}
      }
    },
    "SourceLicenseContext": {
      "target": "com.amazonaws.licensemanager#LicenseConversionContext",
      "traits": {
        "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n    For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert
a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
        "smithy.api#required": {}
      }
    },
    "DestinationLicenseContext": {
      "target": "com.amazonaws.licensemanager#LicenseConversionContext",

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      "traits": {
        "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href='\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
        "smithy.api#required": {}
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseConversionTaskId": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
        "traits": {
          "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors":
  [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    }
  ]

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    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Creates a report generator.</p>"
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
    "type": "structure",
    "members": {
      "ReportGeneratorName": {
        "target": "com.amazonaws.licensemanager#ReportGeneratorName",
        "traits": {
          "smithy.api#documentation": "<p>Name of the report generator.</p>",
          "smithy.api#required": {}
        }
      },
      "Type": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
          "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n      <ul>\n        <li>\n          <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n        </li>\n        <li>\n          <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n        </li>\n      </ul>",
          "smithy.api#required": {}
        }
      }
    },
    "ReportContext": {
      "target": "com.amazonaws.licensemanager#ReportContext",
      "traits": {
        "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
        "smithy.api#required": {}
      }
    }
  },

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    "ReportFrequency": {
      "target": "com.amazonaws.licensemanager#ReportFrequency",
      "traits": {
        "smithy.api#documentation": "<p>Frequency by which reports are generated. Reports can be
generated daily, monthly, or
weekly.</p>",
        "smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientRequestToken",
      "traits": {
        "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
        "smithy.api#required": {}
      }
    },
    "Description": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Description of the report generator.</p>"
      }
    },
    "Tags": {
      "target": "com.amazonaws.licensemanager#TagList",
      "traits": {
        "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
  "type": "structure",
  "members": {
    "LicenseManagerReportGeneratorArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
      }
    }
  }
},
"traits": {
  "smithy.api#output": {}
}

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    }
  },
  "com.amazonaws.licensemanager#CreateLicenseRequest": {
    "type": "structure",
    "members": {
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation":
            "<p>License name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product SKU.</p>",
          "smithy.api#required": {}
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#Issuer",
        "traits": {
          "smithy.api#documentation": "<p>License issuer.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "HomeRegion": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Home Region for the license.</p>",
        "smithy.api#required": {}
      }
    },
    "Validity": {
      "target": "com.amazonaws.licensemanager#DatetimeRange",
      "traits": {
        "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>",
        "smithy.api#required": {}
      }
    }
  }
}

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    }
  },
  "Entitlements": {
    "target": "com.amazonaws.licensemanager#EntitlementList",
    "traits": {
      "smithy.api#documentation": "<p>License entitlements.</p>",
      "smithy.api#required": {}
    }
  },
  "Beneficiary": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>License beneficiary.</p>",
      "smithy.api#required": {}
    }
  },
  "ConsumptionConfiguration": {
    "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
    "traits": {
      "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n      running with continuous connectivity. Choose a borrow configuration for workloads with offline\n      usage.</p>",
      "smithy.api#required": {}
    }
  },
  "LicenseMetadata": {
    "target": "com.amazonaws.licensemanager#MetadataList",
    "traits": {
      "smithy.api#documentation": "<p>Information about the license.</p>"
    }
  },
  "ClientToken": {
    "target": "com.amazonaws.licensemanager#ClientToken",
    "traits": {
      "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "smithy.api#required": {}
    }
  },
  "Tags": {
    "target": "com.amazonaws.licensemanager#TagList",
    "traits": {
      "smithy.api#documentation": "<p>Tags to add to the license. For more information about tagging support in\n      License Manager, see the <a href=\"https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html\">TagResource</a> operation.</p>"
    }
  }
}

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    }

  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#LicenseStatus",
      "traits": {
        "smithy.api#documentation": "<p>License status.</p>"
      }
    },
    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License version.</p>"
      }
    }
  }
},
"traits": {
  "smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    }
  ]
}

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    },
    {
      "target": "com.amazonaws.licensemanager#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#RedirectException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
  }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
        "smithy.api#required": {}
      }
    },
    {}
  },
  "LicenseName": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>License name.</p>",
      "smithy.api#required": {}
    }
  },
  "ProductName": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Product name.</p>",
      "smithy.api#required": {}
    }
  }
}

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    },
    "Issuer": {
      "target": "com.amazonaws.licensemanager#Issuer",
      "traits": {
        "smithy.api#documentation": "<p>License issuer.</p>",
        "smithy.api#required": {}
      }
    },
    "HomeRegion": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Home Region of the license.</p>",
        "smithy.api#required": {}
      }
    },
    "Validity": {
      "target": "com.amazonaws.licensemanager#DatetimeRange",
      "traits": {
        "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>",
        "smithy.api#required": {}
      }
    },
    "LicenseMetadata": {
      "target": "com.amazonaws.licensemanager#MetadataList",
      "traits": {
        "smithy.api#documentation": "<p>Information about the license.</p>"
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementList",
      "traits": {
        "smithy.api#documentation": "<p>License entitlements.</p>",
        "smithy.api#required": {}
      }
    },
    "ConsumptionConfiguration": {
      "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
      "traits": {
        "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n      running with continuous connectivity. Choose a borrow configuration for workloads with offline\n      usage.</p>",
        "smithy.api#required": {}
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#LicenseStatus",

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        "traits": {
            "smithy.api#documentation": "<p>License status.</p>",
        },
    "smithy.api#required": {}
    },
    "ClientToken": {
        "target": "com.amazonaws.licensemanager#ClientToken",
        "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
            "smithy.api#required": {}
        }
    },
    "SourceVersion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>"
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},

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    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#RedirectException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n    <p>A refresh token is a JWT token used to get an access token. With an access token,\n    you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n    call License Manager to manage the specified license.</p>"
  }
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
  "type": "structure",
  "members": {

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    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n      JWT token.</p>",
        "smithy.api#required":
      {}
    }
  },
  "RoleArns": {
    "target": "com.amazonaws.licensemanager#ArnList",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n      License Manager does not check whether the roles are in use.</p>"
    }
  },
  "ExpirationInDays": {
    "target": "com.amazonaws.licensemanager#Integer",
    "traits": {
      "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
    }
  },
  "TokenProperties": {
    "target": "com.amazonaws.licensemanager#MaxSize3StringList",
    "traits": {
      "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n      to the amr claim of the JWT token.</p>"
    }
  },
  "ClientToken": {
    "target": "com.amazonaws.licensemanager#ClientToken",
    "traits": {
      "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
      "smithy.api#required": {}
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
  "type": "structure",
  "members": {
    "TokenId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {

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        "smithy.api#documentation": "<p>Token ID.</p>"
    },
    "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
        }
    },
    "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
    },
    "traits": {
        "smithy.api#output": {}
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required":
{}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {

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    "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
  }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
        "smithy.api#required": {}
      }
    },
    "StatusReason": {
      "target": "com.amazonaws.licensemanager#StatusReasonMessage",
      "traits": {
        "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
      }
    }
  }
}

```

```

    },
    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Current version of the grant.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#DeleteGrantResponse":
{
  "type": "structure",
  "members": {
    "GrantArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Grant ARN.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#GrantStatus",
      "traits": {
        "smithy.api#documentation": "<p>Grant status.</p>"
      }
    },
    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Grant version.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#DeleteLicense":
{
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
  }
}

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    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#RedirectException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      }
    ]
  }
}

```

```

    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n    <p>You cannot delete a license configuration that is in use.</p>"
  },
  "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
      "LicenseConfigurationArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>ID of the license configuration.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
    "type": "structure",
    "members": {},
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
    ],

```

```

{
  "target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
  "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
  "target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
  "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
  "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
  "target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
  "target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
  "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n    <p>This action
deletes
the report generator, which stops it from generating future reports.\n    The action cannot be reversed. It has no
effect on the previous reports from this generator.</p>"
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
  "type": "structure",
  "members": {
    "LicenseManagerReportGeneratorArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
  "type": "structure",

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    "members": {},
    "traits": {

        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {

    "type": "structure",
    "members": {
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
}

```

```

    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token.  
Must be called in the license home Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
  },

```



```

    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {},
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "enum",
    "members": {
      "JWT_PS384": {
        "target": "smithy.api#Unit",

        "traits": {
          "smithy.api#enumValue": "JWT_PS384"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Entitlement name.</p>",
          "smithy.api#required": {}
        }
      },
      "Value": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
        }
      }
    },
    "MaxCount": {
      "target": "com.amazonaws.licensemanager#Long",
      "traits": {
        "smithy.api#documentation":
          "<p>Maximum entitlement count. Use if the unit is not None.</p>"
      }
    },
    "Overage": {
      "target": "com.amazonaws.licensemanager#BoxBoolean",

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        "traits": {
            "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
        }
    },
    "Unit": {
        "target": "com.amazonaws.licensemanager#EntitlementUnit",
        "traits": {
            "smithy.api#documentation": "<p>Entitlement unit.</p>",
            "smithy.api#required": {}
        }
    },
    "AllowCheckIn": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
        }
    }
},
"traits": {
    "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
},
"com.amazonaws.licensemanager#EntitlementData": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement data name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
        }
    },
    "Unit": {
        "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
        "traits": {
            "smithy.api#documentation": "<p>Entitlement data unit.</p>",
            "smithy.api#required": {}
        }
    }
},

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```

    "traits": {
      "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
    }
  },
  "com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#EntitlementData"
    }
  },
  "com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "enum",
    "members": {
      "COUNT": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Count"
        }
      },
      "NONE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue":
"None"
        }
      },
      "SECONDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Seconds"
        }
      },
      "MICROSECONDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Microseconds"
        }
      },
      "MILLISECONDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Milliseconds"
        }
      },
      "BYTES": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Bytes"
        }
      }
    }
  }
}

```

```

    }
  },
  "KILOBYTES": {
    "target": "smithy.api#Unit",

"traits": {
    "smithy.api#enumValue": "Kilobytes"
  }
},
  "MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Megabytes"
    }
  },
  "GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Gigabytes"
    }
  },
  "TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Terabytes"
    }
  },
  "BITS": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Bits"
    }
  },
  "KILOBITS": {

"target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Kilobits"
    }
  },
  "MEGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Megabits"
    }
  },
  "GIGABITS": {
    "target": "smithy.api#Unit",

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```

    "traits": {
      "smithy.api#enumValue": "Gigabits"
    }
  },
  "TERABITS": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Terabits"
    }
  },
  "PERCENT": {
    "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Percent"
    }
  },
},
"BYTES_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Bytes/Second"
  }
},
"KILOBYTES_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Kilobytes/Second"
  }
},
"MEGABYTES_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Megabytes/Second"
  }
},
"GIGABYTES_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Gigabytes/Second"
  }
},
"TERABYTES_PER_SECOND": {
  "target":
"smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Terabytes/Second"
  }
},

```

```

"BITS_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Bits/Second"
  }
},
"KILOBITS_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Kilobits/Second"
  }
},
"MEGABITS_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Megabits/Second"
  }
},
"GIGABITS_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue":
"Gigabits/Second"
  }
},
"TERABITS_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Terabits/Second"
  }
},
"COUNT_PER_SECOND": {
  "target": "smithy.api#Unit",
  "traits": {
    "smithy.api#enumValue": "Count/Second"
  }
}
},
"com.amazonaws.licensemanager#EntitlementList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#Entitlement"
  }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
  "type": "structure",
  "members": {

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    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 400
  }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
  "type": "enum",
  "members": {
    "COUNT": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Count"
      }
    },
    "NONE": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "None"
      }
    },
    "SECONDS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Seconds"
      }
    },
    "MICROSECONDS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Microseconds"
      }
    },
    "MILLISECONDS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Milliseconds"
      }
    },
    "BYTES": {
      "target": "smithy.api#Unit",
      "traits": {

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        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
    }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobits"
    }
},
"MEGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabits"
    }
},
"GIGABITS": {

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```

        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Gigabits"
        }
    },
    "TERABITS": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Terabits"
        }
    },
    "PERCENT": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Percent"
        }
    },
    "BYTES_PER_SECOND": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Bytes/Second"
        }
    },
    "KILOBYTES_PER_SECOND": {
        "target":
"smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
        }
    },
    "MEGABYTES_PER_SECOND": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
        }
    },
    "GIGABYTES_PER_SECOND": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
        }
    },
    "TERABYTES_PER_SECOND": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Terabytes/Second"
        }
    },

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```

    "BITS_PER_SECOND": {
      "target": "smithy.api#Unit",
      "traits": {

"smithy.api#enumValue": "Bits/Second"
      }
    },
    "KILOBITS_PER_SECOND": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobits/Second"
      }
    },
    "MEGABITS_PER_SECOND": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits/Second"
      }
    },
    "GIGABITS_PER_SECOND": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabits/Second"
      }
    },
    "TERABITS_PER_SECOND": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabits/Second"
      }
    },

    "COUNT_PER_SECOND": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Count/Second"
      }
    }
  },
  "com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Entitlement usage name.</p>",
          "smithy.api#required": {}
        }
      }
    }
  }
}

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```

    }
  },
  "ConsumedValue": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Resource usage consumed.</p>",
      "smithy.api#required": {}
    }
  },
  "MaxCount": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
    }
  },
  "Unit": {
    "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
    "traits": {
      "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
      "smithy.api#required": {}
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
  },
  "com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
  },
  "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {

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        "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
    },
    {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
        "target": "com.amazonaws.licensemanager#ValidationException"
    }
],
"traits": {
    "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
    "type": "structure",
    "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>",
                "smithy.api#required": {}
            }
        },
        "DryRun": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
                "smithy.api#default": false,
                "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

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"members": {
  "LicenseConsumptionToken": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>License consumption token.</p>"
    }
  },
  "Expiration": {
    "target": "com.amazonaws.licensemanager#ISO8601DateTime",
    "traits": {
      "smithy.api#documentation": "<p>Date and time at which the
license consumption expires.</p>"
    }
  }
},
"traits": {
  "smithy.api#output": {}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
  "type": "structure",
  "members": {
    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    },
    "ErrorCode": {
      "target": "com.amazonaws.licensemanager#String"
    }
  },
  "traits": {
    "aws.protocols#awsQueryError": {
      "code": "FailedDependency",
      "httpResponseCode": 424
    },
    "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 424
  }
},
"com.amazonaws.licensemanager#Filter":
{
  "type": "structure",
  "members": {
    "Name": {
      "target": "com.amazonaws.licensemanager#FilterName",
      "traits": {
        "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
      }
    }
  }
}

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    },
    "Values": {
      "target": "com.amazonaws.licensemanager#FilterValues",
      "traits": {
        "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n      describe operation. Filters can be used to match a set of resources by specific criteria,\n      such as
tags, attributes, or IDs.</p>"

  }
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "aws.protocols#awsQueryError": {
      "code": "FilterLimitExceeded",
      "httpResponseCode": 400
    },
    "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 400
  }
},
"com.amazonaws.licensemanager#FilterList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#Filter"
  }
},
"com.amazonaws.licensemanager#FilterName": {
  "type": "string"
},
"com.amazonaws.licensemanager#FilterValue":
{
  "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
  "type": "list",

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    "member": {
      "target": "com.amazonaws.licensemanager#FilterValue",
      "traits": {
        "smithy.api#xmlName": "item"
      }
    },
    "com.amazonaws.licensemanager#Filters": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
          "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
      },
    },

    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Gets a temporary access token to use with  
AssumeRoleWithWebIdentity. Access tokens\n      are valid for one hour.</p>"
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {

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    "type": "structure",
    "members": {
        "Token":
    {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
            "smithy.api#required": {}
        }
    },
    "TokenProperties": {
        "target": "com.amazonaws.licensemanager#MaxSize3StringList",
        "traits": {
            "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
    "type": "structure",
    "members": {
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {

                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

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    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
  }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
        "smithy.api#required": {}
      }
    },
    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Grant version.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
  "type": "structure",
  "members": {

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    "Grant": {
      "target": "com.amazonaws.licensemanager#Grant",
      "traits": {
        "smithy.api#documentation": "<p>Grant details.</p>"
      }
    },
    "traits": {
      "smithy.api#output": {}
    },
    "com.amazonaws.licensemanager#GetLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets detailed
information about the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
      }
    }
  }
}

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    },
    "output": {
      "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Gets detailed information about the specified license configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
      "LicenseConfigurationArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
      "LicenseConfigurationId": {
        "target": "com.amazonaws.licensemanager#String",

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    "traits": {
      "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
    }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },

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    "ConsumedLicenses": {
      "target": "com.amazonaws.licensemanager#BoxLong",
      "traits": {
        "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License configuration status.</p>"
      }
    },
    "OwnerAccountId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Account ID of the owner
of the license configuration.</p>"
      }
    },
    "ConsumedLicenseSummaryList": {
      "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
      "traits": {
        "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
      }
    },
    "ManagedResourceSummaryList": {
      "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
      "traits": {
        "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
      }
    },
    "Tags": {
      "target": "com.amazonaws.licensemanager#TagList",
      "traits": {
        "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
      }
    },
    "ProductInformationList":
  {
    "target": "com.amazonaws.licensemanager#ProductInformationList",
    "traits": {
      "smithy.api#documentation": "<p>Product information.</p>"
    }
  },
    "AutomatedDiscoveryInformation": {
      "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
      "traits": {
        "smithy.api#documentation": "<p>Automated discovery information.</p>"
      }
    }
  }

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    }
  },
  "DisassociateWhenNotFound": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#GetLicenseConversionTask":
{
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
  }
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
  "type": "structure",
  "members": {
    "LicenseConversionTaskId": {

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        "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
        "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
            "smithy.api#required": {}
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
                "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
            }
        },
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

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        "traits": {
            "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
        }
    },
    "StartTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Time at which the license type conversion task
was started .</p>"
        }
    },
    "LicenseConversionTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
        }
    },
    "EndTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        }
    ]
}

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    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
  }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
  "type": "structure",
  "members": {
    "LicenseManagerReportGeneratorArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse":
{
  "type": "structure",
  "members": {
    "ReportGenerator": {
      "target": "com.amazonaws.licensemanager#ReportGenerator",
      "traits": {
        "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license configurations.</p>"
      }
    }
  },
  "traits": {

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        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target":
"com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target": "com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output":
{
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },

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"errors": [
  {
    "target": "com.amazonaws.licensemanager#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  },
  {
    "target": "com.amazonaws.licensemanager#ValidationException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified
license.</p>"
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
  "type": "structure",
  "members": {
    "LicenseUsage": {
      "target": "com.amazonaws.licensemanager#LicenseUsage",
      "traits": {
        "smithy.api#documentation": "<p>License usage details.</p>"
      }
    }
  }
}

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    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#GetServiceSettings": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation":
    "<p>Gets the License Manager settings for the current Region.</p>"
  }
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
  "type": "structure",
  "members": {},
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
  "type": "structure",
  "members": {
    "S3BucketArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n      and so on.</p>"

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    }
  },
  "SnsTopicArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>SNS topic configured
to receive notifications from License Manager.</p>"
    }
  },
  "OrganizationConfiguration": {
    "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
    "traits": {
      "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n      cross-account discovery.</p>"
    }
  },
  "EnableCrossAccountsDiscovery": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
    }
  },
  "LicenseManagerResourceShareArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon
Resource Name (ARN) of the resource share. The License Manager management account \n      provides member
accounts with access to this share.</p>"
    }
  },
  "traits": {
    "smithy.api#output": {}
  },
  "com.amazonaws.licensemanager#Grant": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "GrantName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {

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        "smithy.api#documentation": "<p>Grant name.</p>",
        "smithy.api#required": {}
    }

},
"ParentArn": {
    "target": "com.amazonaws.licensemanager#Arn",
    "traits": {
        "smithy.api#documentation": "<p>Parent ARN.</p>",
        "smithy.api#required": {}
    }
},
"LicenseArn": {
    "target": "com.amazonaws.licensemanager#Arn",
    "traits": {
        "smithy.api#documentation": "<p>License ARN.</p>",
        "smithy.api#required": {}
    }
},
"GranteePrincipalArn": {
    "target": "com.amazonaws.licensemanager#Arn",
    "traits": {
        "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
        "smithy.api#required": {}
    }
},
"HomeRegion": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Home Region of the grant.</p>",
        "smithy.api#required": {}
    }
},
"GrantStatus": {
    "target": "com.amazonaws.licensemanager#GrantStatus",
    "traits": {
        "smithy.api#documentation": "<p>Grant status.</p>",
        "smithy.api#required": {}
    }
},
"StatusReason": {
    "target": "com.amazonaws.licensemanager#StatusReasonMessage",
    "traits": {
        "smithy.api#documentation": "<p>Grant status reason.</p>"
    }
},
"Version": {
    "target": "com.amazonaws.licensemanager#String",

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    "traits": {
      "smithy.api#documentation":
"<p>Grant version.</p>",
      "smithy.api#required": {}
    }
  },
  "GrantedOperations": {
    "target": "com.amazonaws.licensemanager#AllowedOperationList",
    "traits": {
      "smithy.api#documentation": "<p>Granted operations.</p>",
      "smithy.api#required": {}
    }
  },
  "Options": {
    "target": "com.amazonaws.licensemanager#Options",
    "traits": {
      "smithy.api#documentation": "<p>The options specified for the grant.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes a grant.</p>"
  },
  "com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#Grant"
    }
  },
  "com.amazonaws.licensemanager#GrantStatus": {
    "type": "enum",
    "members": {
      "PENDING_WORKFLOW": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_WORKFLOW"
        }
      },
      "PENDING_ACCEPT": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_ACCEPT"
        }
      },
      "REJECTED": {
        "target": "smithy.api#Unit",
        "traits": {

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        "smithy.api#enumValue": "REJECTED"
    }
},
"ACTIVE": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "ACTIVE"
    }
},
"FAILED_WORKFLOW": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "FAILED_WORKFLOW"
    }
},
"DELETED": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "DELETED"
    }
},
"PENDING_DELETE": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "PENDING_DELETE"
    }
},
"DISABLED": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "DISABLED"
    }
},
"WORKFLOW_COMPLETED": {
    "target": "smithy.api#Unit",
    "traits":
{
        "smithy.api#enumValue": "WORKFLOW_COMPLETED"
    }
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {

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        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
        }
    },
    "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
        }
    },
    "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
        }
    },
    "Issuer": {
        "target": "com.amazonaws.licensemanager#IssuerDetails",
        "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
        }
    },
    "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
            "smithy.api#documentation":
"<p>Granted license status.</p>"
        }
    },
    "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
        }
    },

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    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementList",
      "traits": {
        "smithy.api#documentation": "<p>License entitlements.</p>"
      }
    },
    "ConsumptionConfiguration": {
      "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
      "traits": {
        "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
      }
    },
    "LicenseMetadata": {
      "target": "com.amazonaws.licensemanager#MetadataList",
      "traits": {
        "smithy.api#documentation": "<p>Granted license metadata.</p>"
      }
    },
    "CreateTime": {
      "target": "com.amazonaws.licensemanager#ISO8601DateTime",
      "traits": {
        "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
      }
    },
    "Version": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Version of the
granted license.</p>"
      }
    },
    "ReceivedMetadata": {
      "target": "com.amazonaws.licensemanager#ReceivedMetadata",
      "traits": {
        "smithy.api#documentation": "<p>Granted license received metadata.</p>"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }

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```

    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
      }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 50
        },
        "smithy.api#pattern": "^(?:(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2)[0-9]T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[-+](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
      }
    },
    "com.amazonaws.licensemanager#Integer": {
      "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InvalidParameterValueProvided",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException":
  {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {

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    "aws.protocols#awsQueryError": {
      "code": "InvalidResourceState",
      "httpResponseCode": 400
    },
    "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n    <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 400
  }
},
"com.amazonaws.licensemanager#InventoryFilter": {
  "type": "structure",
  "members": {
    "Name": {
      "target": "com.amazonaws.licensemanager#String",

"traits": {
  "smithy.api#documentation": "<p>Name of the filter.</p>",
  "smithy.api#required": {}
}
},
"Condition": {
  "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
  "traits": {
    "smithy.api#documentation": "<p>Condition of the filter.</p>",
    "smithy.api#required": {}
  }
},
"Value": {
  "target": "com.amazonaws.licensemanager#String",
  "traits": {
    "smithy.api#documentation": "<p>Value of the filter.</p>"
  }
}
},
"traits": {
  "smithy.api#documentation": "<p>An inventory filter.</p>"
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
  "type": "enum",
  "members": {
    "EQUALS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "EQUALS"
      }
    }
  }
}

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    },
    "NOT_EQUALS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "NOT_EQUALS"
      }
    },
    "BEGINS_WITH": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "BEGINS_WITH"
      }
    },
    "CONTAINS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "CONTAINS"
      }
    }
  }
},
"com.amazonaws.licensemanager#InventoryFilterList": {
  "type": "list",

  "member": {
    "target": "com.amazonaws.licensemanager#InventoryFilter"
  }
},
"com.amazonaws.licensemanager#Issuer": {
  "type": "structure",
  "members": {
    "Name": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Issuer name.</p>",
        "smithy.api#required": {}
      }
    },
    "SignKey": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n      and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
      }
    }
  }
},
"traits": {

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    "smithy.api#documentation": "<p>Details
about the issuer of a license.</p>"
  },
  "com.amazonaws.licensemanager#IssuerDetails": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Issuer name.</p>"
        }
      },
      "SignKey": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n      and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
        }
      },
      "KeyFingerprint": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation":
"<p>Issuer key fingerprint.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
      "LicenseArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
        }
      },
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License name.</p>"
        }
      }
    }
  },

```

```

    "ProductName": {
        "target": "com.amazonaws.licensemanager#String",

"traits": {
    "smithy.api#documentation": "<p>Product name.</p>"
    },
    },
    "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
        }
    },
    "Issuer": {
        "target": "com.amazonaws.licensemanager#IssuerDetails",
        "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
        }
    },
    "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
        }
    },
    "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
        }
    },
    "Beneficiary": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
        }
    },
    "Entitlements": {
        "target": "com.amazonaws.licensemanager#EntitlementList",
        "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>"

```

```

    }
  },
  "ConsumptionConfiguration": {
    "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
    "traits": {
      "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
    }
  },
  "LicenseMetadata": {
    "target": "com.amazonaws.licensemanager#MetadataList",
    "traits": {
      "smithy.api#documentation": "<p>License metadata.</p>"
    }
  },
  "CreateTime": {
    "target": "com.amazonaws.licensemanager#ISO8601DateTime",
    "traits": {
      "smithy.api#documentation": "<p>License creation time.</p>"
    }
  },
  "Version": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation":
"<p>License version.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
  }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
      }
    },
    "LicenseConfigurationArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },

```



```

    "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>"
        }
    },
    "Description": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
        }
    },
    "LicenseCountingType": {
        "target": "com.amazonaws.licensemanager#LicenseCountingType",
        "traits": {
            "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
        }
    },
    "LicenseRules": {
        "target": "com.amazonaws.licensemanager#StringList",
        "traits": {
            "smithy.api#documentation":
"<p>License rules.</p>"
        }
    },
    "LicenseCount": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
            "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
        }
    },
    "LicenseCountHardLimit": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
        }
    },
    "DisassociateWhenNotFound": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
        }
    },
    "ConsumedLicenses":
{
    "target": "com.amazonaws.licensemanager#BoxLong",

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    "traits": {
      "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
    }
  },
  "Status": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Status of the license configuration.</p>"
    }
  },
  "OwnerAccountId": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
    }
  },
  "ConsumedLicenseSummaryList": {
    "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
    "traits": {
      "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
    }
  },
  "ManagedResourceSummaryList": {
    "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
    "traits": {
      "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
    }
  },
  "ProductInformationList": {
    "target": "com.amazonaws.licensemanager#ProductInformationList",
    "traits": {
      "smithy.api#documentation": "<p>Product information.</p>"
    }
  },
  "AutomatedDiscoveryInformation": {
    "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
    "traits": {
      "smithy.api#documentation": "<p>Automated discovery information.</p>"
    }
  }
},
"traits": {
  "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a"

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host), and the number of licenses purchased and used.</p>"

```
    }
  },
  "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Type of server resource.</p>"
        }
      },
      "ResourceOwnerId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>"
        }
      },
      "AssociationTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
        }
      },
      "AmiAssociationScope": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
      "type": "list",
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    "member": {
      "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
    }
  },
  "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
    "type": "enum",
    "members": {
      "AVAILABLE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "AVAILABLE"
        }
      },

      "DISABLED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "DISABLED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Type of resource.</p>"
        }
      },
      "ResourceStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Status of the resource.</p>"
        }
      },
      "ResourceOwnerId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
        }
      }
    }
  }
}

```

```

    },
    "AssociationTime": {
      "target": "com.amazonaws.licensemanager#DateTime",
      "traits": {
        "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
      }
    },
    },
    "ConsumedLicenses": {
      "target": "com.amazonaws.licensemanager#BoxLong",
      "traits": {
        "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
  }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
  }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#LicenseConfiguration"
  }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
  "type": "structure",
  "members": {
    "UsageOperation": {
      "target": "com.amazonaws.licensemanager#UsageOperation",
      "traits": {
        "smithy.api#documentation":
        "<p>The Usage operation value that corresponds to the license type you are converting your resource from. For
more information about which platforms correspond to which usage operation values see <a
href='\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform\n    </a>\n    </p>"
      }
    }
  }
},
"traits": {
  "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
}

```

```

    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTask": {
    "type": "structure",
    "members": {
      "LicenseConversionTaskId": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
        "traits": {
          "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
        }
      }
    },
    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type\n      conversion task.</p>"
      }
    },
    "SourceLicenseContext": {
      "target": "com.amazonaws.licensemanager#LicenseConversionContext",
      "traits": {
        "smithy.api#documentation": "<p>Information about the license type this conversion task converted from.</p>"
      }
    },
    "DestinationLicenseContext": {
      "target": "com.amazonaws.licensemanager#LicenseConversionContext",
      "traits": {
        "smithy.api#documentation": "<p>Information about the license type this conversion task converted to.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
      "traits": {
        "smithy.api#documentation": "<p>The status of the conversion task.</p>"
      }
    },
    "StatusMessage": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
      }
    },
    "StartTime": {
      "target": "com.amazonaws.licensemanager#DateTime",
      "traits": {

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        "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
    },
    "LicenseConversionTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
            "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
        }
    },
    "EndTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
            "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^\\ct-[a-zA-Z0-9]*$"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus":
{
    "type": "enum",
    "members": {
        "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "IN_PROGRESS"
            }
        },
        "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUCCEEDED"
            }
        },
        "FAILED": {

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```

        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "FAILED"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType":
    {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus":
    {
        "type": "enum",
        "members": {
            "PENDING_DELETE": {

```



```

        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
        }
    },
    "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DELETED"
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
                "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Failure time.</p>"
            }
        },
        "OperationName": {

```

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        "target": "com.amazonaws.licensemanager#String",
        "traits":
    {
        "smithy.api#documentation": "<p>Name of the operation.</p>"
    }
},
"ResourceOwnerId": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
    }
},
"OperationRequestedBy": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
    }
},
"MetadataList": {
    "target": "com.amazonaws.licensemanager#MetadataList",
    "traits": {
        "smithy.api#documentation": "<p>Reserved.</p>"
    }
}
},
"traits": {
    "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
    }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
            }
        }
    }
},

```

```

    "AmiAssociationScope": {
      "target": "com.amazonaws.licensemanager#String",
      "traits":
    {
      "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
  },
  "com.amazonaws.licensemanager#LicenseSpecifications": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#LicenseSpecification"
    }
  },
  "com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
      "AVAILABLE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "AVAILABLE"
        }
      },
      "PENDING_AVAILABLE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_AVAILABLE"
        }
      },
      "DEACTIVATED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "DEACTIVATED"
        }
      },
      "SUSPENDED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SUSPENDED"
        }
      },
      "EXPIRED": {

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        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "EXPIRED"
        }
    },
    "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
        }
    },
    "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DELETED"
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
        },
        "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource launch.</p>"
    }
}

```

```

    "smithy.api#error": "client",
    "smithy.api#httpError": 412
  }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the resource associations for the specified license configuration.</p>\n    <p>Resource associations need not consume licenses from a license configuration. \n    For example, an AMI or a stopped instance might not consume a license (depending on \n    the license rules).</p>"
  }
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
        "smithy.api#required": {}
      }
    }
  }
}

```

```

    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
      "LicenseConfigurationAssociations": {
        "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
        "traits": {
          "smithy.api#documentation": "<p>Information about the associations for the license configuration.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListDistributedGrants": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
    }
  }
}

```

```

    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
    "type": "structure",
    "members": {
      "GrantArns": {
        "target": "com.amazonaws.licensemanager#ArnList",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#FilterList",
        "traits": {
          "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>LicenseArn</code>\n          </p>\n          </li>\n          <li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n            <p>\n              <code>GranteePrincipalARN</code>\n            </p>\n          </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n          </li>\n        </ul>"
        }
      }
    }
  }

```

```

    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#MaxSize100",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
  "type": "structure",
  "members": {
    "Grants": {
      "target": "com.amazonaws.licensemanager#GrantList",
      "traits": {
        "smithy.api#documentation": "<p>Distributed grant details.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
  },
  "errors": [
    {

```



```

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
],
"traits": {
    "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

```

```

"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
  "type": "structure",
  "members": {
    "LicenseOperationFailureList": {
      "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",

"traits": {
  "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
  },
  },
  "NextToken": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Token for the next set of results.</p>"
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ]
}

```

```

    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
    "type": "structure",
    "members": {
      "LicenseConfigurationArns":
    {
      "target": "com.amazonaws.licensemanager#StringList",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "Filters": {
      "target": "com.amazonaws.licensemanager#Filters",
      "traits": {
        "smithy.api#documentation":
        "<p>Filters to scope the results. The following filters and logical operators\n      are supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>licenseCountingType</code> - The dimension for which licenses are
counted.\n            Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> |
<code>Socket</code>.</p>\n          </li>\n          <li>\n            <p>\n              <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is
used.</p>\n            </li>\n            <li>\n              <p>\n                <code>usagelimitExceeded</code> - A Boolean
value that indicates whether the available licenses have been exceeded.</p>\n              </li>\n            </ul>"
          }
        }
      },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse":

```

```

{
  "type": "structure",
  "members": {
    "LicenseConfigurations": {
      "target": "com.amazonaws.licensemanager#LicenseConfigurations",
      "traits": {
        "smithy.api#documentation": "<p>Information about the license configurations.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
  }
}

```

```

    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest":
    {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n    Filters to scope the results. Valid filters are  
<code>ResourceArns</code> and <code>Status</code>.\n    </p>"
                }
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTasks": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configuration tasks for your  
account.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {

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```

    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators":
{
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
  }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
  "type": "structure",
  "members": {
    "Filters": {
      "target": "com.amazonaws.licensemanager#FilterList",
      "traits": {

```

```

        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n    <ul>\n        <li>\n            <p>\n                <code>LicenseConfigurationArn</code>\n            </p>\n        </li>\n    </ul>"
    },
    "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
    },
    "MaxResults": {
        "target": "com.amazonaws.licensemanager#MaxSize100",
        "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
    "type": "structure",
    "members": {
        "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
                "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
    },

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"output": {
  "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
  {
    "target": "com.amazonaws.licensemanager#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
  "type": "structure",
  "members": {

    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",
        "smithy.api#required": {}
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    }
  }
}

```



```

    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseSpecifications": {
        "target": "com.amazonaws.licensemanager#LicenseSpecifications",
        "traits": {
          "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
      "target":
"com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      }
    ]
  }
}

```

```

    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
  }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
        "smithy.api#required": {}
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#MaxSize100",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "target": "com.amazonaws.licensemanager#LicenseList",
      "traits": {
        "smithy.api#documentation": "<p>License details.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {

```

```

        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {

"target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {

"smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
      "LicenseArns": {
        "target": "com.amazonaws.licensemanager#ArnList",
        "traits": {

```

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        "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
    }
},
"Filters": {
    "target": "com.amazonaws.licensemanager#FilterList",
    "traits": {
        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>Beneficiary</code>\n            </p>\n            </li>\n            <li>\n            <p>\n                <code>ProductSKU</code>\n            </p>\n            </li>\n            <li>\n            <p>\n                <code>Fingerprint</code>\n            </p>\n            </li>\n            <li>\n            <p>\n                <code>Status</code>\n            </p>\n            </li>\n        </ul>"
    }
},
"NextToken": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
    }
},
"MaxResults": {
    "target": "com.amazonaws.licensemanager#MaxSize100",
    "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
    }
}
},
"traits": {
    "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse":
{
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"traits": {

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        "smithy.api#output": {}
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target":
"com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits":
    {
        "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while specifying the\n    recipient as this Amazon Web Services account, your organization, or an organizational unit\n(OU) to which this member account belongs.</p>"
    }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {

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    "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
  }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "target": "com.amazonaws.licensemanager#Arn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
        "smithy.api#required": {}
      }
    },
    "Filters": {
      "target": "com.amazonaws.licensemanager#FilterList",
      "traits": {
        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>ParentArn</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>GranteePrincipalArn</code>\n          </p>\n        </li>\n      </ul>"
      }
    }
  }
}

```

```

    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#MaxSize100",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
    "type": "structure",
    "members": {
      "Grants": {
        "target": "com.amazonaws.licensemanager#GrantList",
        "traits": {
          "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
    "type": "structure",
    "members": {
      "GrantArns": {
        "target": "com.amazonaws.licensemanager#ArnList",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
        }
      }
    },
  },

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```

    "Filters": {
      "target": "com.amazonaws.licensemanager#FilterList",
      "traits": {
        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>ProductSKU</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>LicenseIssuerName</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>LicenseArn</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>GrantStatus</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>GranterAccountId</code>\n          </p>\n        </li>\n      </ul>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#MaxSize100",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
      "Grants": {
        "target": "com.amazonaws.licensemanager#GrantList",
        "traits": {
          "smithy.api#documentation": "<p>Received grant details.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  }
}

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    }
  },
  "com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      }
    ]
  }
}

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    },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  },
  {
    "target": "com.amazonaws.licensemanager#ValidationException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {

  "type": "structure",
  "members": {
    "Filters": {
      "target": "com.amazonaws.licensemanager#FilterList",
      "traits": {
        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>Beneficiary</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>ProductSKU</code>\n          </p>\n        </li>\n      </ul>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#MaxSize100",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    }
  }
}

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```

    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "target": "com.amazonaws.licensemanager#GrantedLicenseList",
      "traits": {
        "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
  "type": "structure",
  "members": {
    "LicenseArns": {
      "target": "com.amazonaws.licensemanager#ArnList",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
      }
    },
    "Filters": {
      "target": "com.amazonaws.licensemanager#FilterList",
      "traits": {
        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:</p>\n
        <ul>\n
          <li>\n
            <p>\n
              <code>ProductSKU</code>\n
            </li>\n
          <li>\n
            <p>\n
              <code>Status</code>\n
            </li>\n
          <li>\n
            <p>\n
              <code>Fingerprint</code>\n
            </li>\n
          <li>\n
            <p>\n
              <code>IssuerName</code>\n
            </li>\n
          <li>\n
            <p>\n
              <code>Beneficiary</code>\n
            </li>\n
        </ul>"
      }
    }
  },
  "NextToken": {

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```

        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
    },
    "MaxResults": {
        "target": "com.amazonaws.licensemanager#MaxSize100",
        "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
    }
},
"traits": {
    "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {

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        "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
    },
    {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
    },
    {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    }
},
{
    "target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
    "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
        "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n    are supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>account_id</code>\n            - The ID of the Amazon Web Services account that owns the resource.\n            Logical operators are"

```

```

<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n      </li>\n      <li>\n      <p>\n      <code>application_name</code> - The name of the application. \n      Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n      </li>\n      <li>\n      <p>\n      <code>license_included</code> - The type of license included. \n      Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n      Possible values are <code>sql-server-enterprise</code> | \n      <code>sql-server-standard</code> | \n      <code>sql-server-web</code> | \n      <code>windows-server-datacenter</code>.</p>\n    </li>\n    <li>\n    <p>\n    <code>platform</code> - The platform of the resource.\n    Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n    <p>\n    <code>resource_id</code> - The ID of the resource. \n    Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n    </li>\n    <li>\n    <p>\n    <code>tag:<key></code> - The key/value combination of a tag assigned \n    to the resource. Logical operators are <code>EQUALS</code> (single account) or\n    <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n  </li>\n</ul>"
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
  "type": "structure",
  "members": {
    "ResourceInventoryList": {
      "target": "com.amazonaws.licensemanager#ResourceInventoryList",
      "traits": {
        "smithy.api#documentation": "<p>Information about the resources.</p>"
      }
    },
    "NextToken": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#ListTagsForResource":
{
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
  },

```

```

"output": {
  "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
  {
    "target": "com.amazonaws.licensemanager#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  }
],
"traits": {

"smithy.api#documentation": "<p>Lists the tags for the specified resource. For more information about tagging support in\n      License Manager, see the <a href=\"https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html\">TagResource</a> operation.</p>"
  },
  "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
  "type": "structure",
  "members":
{
  "Tags": {
    "target": "com.amazonaws.licensemanager#TagList",

```

```

        "traits": {
            "smithy.api#documentation": "<p>Information about the tags.</p>"
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListTokens": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListTokensRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListTokensResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists your tokens.</p>"
    }
},
"com.amazonaws.licensemanager#ListTokensRequest": {
    "type": "structure",
    "members": {
        "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>Token IDs.</p>"
            }
        }
    },
    "Filters": {

```



```

        "target": "com.amazonaws.licensemanager#FilterList",
        "traits": {
            "smithy.api#documentation": "<p>Filters
to scope the results. The following filter is supported:</p>\n    <ul>\n        <li>\n            <p>\n</li>\n        </ul>\n</code>LicenseArns</code>\n        </p>\n        </li>\n        </ul>"
        }
    },
    "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
    },
    "MaxResults": {
        "target": "com.amazonaws.licensemanager#MaxSize100",
        "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
    }
},
"traits": {
    "smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
    "type":
"structure",
    "members": {
        "Tokens": {
            "target": "com.amazonaws.licensemanager#TokenList",
            "traits": {
                "smithy.api#documentation": "<p>Received token details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
    "type": "operation",
    "input": {

```

```

    "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n    consumption
details by resource at a selected point in time. Use this action to audit the\n    current license consumption for
any license inventory and configuration.</p>"
  }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
        "smithy.api#required": {}
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanager#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
      }
    }
  }
}

```

```

    },

    "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
    },

    "Filters": {
        "target": "com.amazonaws.licensemanager#Filters",
        "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n    are supported:</p>\n    <ul>\n        <li>\n            <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.</p>\n            </li>\n            <li>\n
<p>\n            <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | \n
\t<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).</p>\n            </li>\n            <li>\n
<p>\n            <code>resourceAccount</code> - The ID of the account that owns the resource.</p>\n
</li>\n        </ul>"
        }
    },

    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},

"com.amazonaws.licensemanager#Location": {

```

```

    "type": "string"
  },
  "com.amazonaws.licensemanager#Long": {
    "type": "long"
  },
  "com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
        }
      },
      "AssociationCount": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
          "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
        }
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
  }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
  }
},
"com.amazonaws.licensemanager#MaxSize100": {
  "type": "integer",
  "traits": {
    "smithy.api#range": {
      "min": 1,
      "max": 100
    }
  }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#String"
  },
  "traits": {
    "smithy.api#length": {

```

```

        "min": 0,
        "max": 3
    }
}

},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
}

```

```

    },
    "com.amazonaws.licensemanager#Options": {
      "type": "structure",
      "members": {
        "ActivationOverrideBehavior": {
          "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
          "traits": {
            "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.</p>\n
Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n
<code>Status</code> parameter.</p>\n
      <ul>\n
        <li>\n
          <p>As a license administrator, you can optionally specify an\n
            <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n
        </li>\n
        <li>\n
          <p>As a grantor, you can optionally specify an\n
            <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n
              account in your organization.</p>\n
        </li>\n
        <li>\n
          <p>As a grantee, if the grantor creating the distributed grant doesn't specify an\n
            <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n
              are activating the grant.</p>\n
        </li>\n
      </ul>\n
      <dl>\n
        <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n
        <dd>\n
          <p>Use this value to activate a grant without replacing any member accounts\n
              active grants for the same product.</p>\n
        </dd>\n
        <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n
        <dd>\n
          <p>Use this value to activate a grant and disable other active grants in any\n
              member accounts for the same product. This action will also replace their\n
              previously activated grants with this activated grant.</p>\n
        </dd>\n
      </dl>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n
override behavior. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\"'>Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
      }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
      "type": "structure",
      "members": {
        "EnableIntegration": {
          "target": "com.amazonaws.licensemanager#Boolean",
          "traits": {
            "smithy.api#default": false,
            "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
      }
    }
  }

```

```

    }
  },
  "com.amazonaws.licensemanager#PrincipalArnList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#Arn"
    },
    "traits": {

"smithy.api#length": {
    "min": 1,
    "max": 1
  }
}
  },
  "com.amazonaws.licensemanager#ProductInformation": {
    "type": "structure",
    "members": {
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductInformationFilterList": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
        "traits": {
          "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code>
which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies
the value to filter on. </p>\n      <p>Accepted values for <code>ProductInformationFilterName</code> are listed
here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. </p>\n
<p>The following filters and are supported when the resource type \n      is
<code>SSM_MANAGED</code>:</p>\n      <ul>\n      <li>\n      <p>\n      <code>Application
Name</code> - The name of the application.\n      Logical operator is <code>EQUALS</code>.</p>\n
</li>\n      <li>\n      <p>\n      <code>Application Publisher</code> - The publisher of the
application.\n      Logical operator is <code>EQUALS</code>.</p>\n      </li>\n      <li>\n
<p>\n      <code>Application Version</code> - The version of the
application.\n      Logical operator is <code>EQUALS</code>.</p>\n      </li>\n      <li>\n
<p>\n      <code>Platform Name</code> - The name of the platform.\n      Logical operator is
<code>EQUALS</code>.</p>\n      </li>\n      <li>\n      <p>\n      <code>Platform
Type</code> - The platform type.\n      Logical operator is <code>EQUALS</code>.</p>\n      </li>\n
<li>\n      <p>\n      <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services
resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The
key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-

```

key. `ProductInformationFilterValue` is optional if you are not using values for the key.

- `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.
- Logical operator is `NOT_EQUALS`.
- `License Included` - The type of license included.

Logical operators are `EQUALS` and `NOT_EQUALS`.

Possible values are:

- `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `Engine Edition` - The edition of the database engine.
- Logical operator is `EQUALS`.
- Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2` | `db2-se` | `db2-ae`.
- `License Pack` - The license pack.
- Logical operator is `EQUALS`.
- Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

```

    "smithy.api#required": {}
  }
},
"traits": {
  "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
}
},
"com.amazonaws.licensemanager#ProductInformationFilter":
{
  "type": "structure",
  "members": {
    "ProductInformationFilterName": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Filter name.</p>",
        "smithy.api#required": {}
      }
    },
    "ProductInformationFilterValue": {
      "target": "com.amazonaws.licensemanager#StringList",
      "traits": {
        "smithy.api#documentation": "<p>Filter value.</p>"
      }
    },
    "ProductInformationFilterComparator": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Logical operator.</p>",
        "smithy.api#required": {}
      }
    }
  }
}

```



```

    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes product information filters.</p>"
  }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ProductInformationFilter"
  }
},
"com.amazonaws.licensemanager#ProductInformationList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ProductInformation"
  }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
  "type": "structure",
  "members": {
    "MaxTimeToLiveInMinutes": {
      "target": "com.amazonaws.licensemanager#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
  }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "aws.protocols#awsQueryError": {
      "code": "RateLimitExceeded",
      "httpResponseCode": 429
    },
    "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",

```

```

    "smithy.api#error": "client",
    "smithy.api#httpError": 429
  }
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
  "type": "structure",
  "members": {
    "ReceivedStatus": {
      "target": "com.amazonaws.licensemanager#ReceivedStatus",
      "traits": {
        "smithy.api#documentation": "<p>Received status.</p>"
      }
    },
    "ReceivedStatusReason": {
      "target": "com.amazonaws.licensemanager#StatusReasonMessage",
      "traits": {
        "smithy.api#documentation": "<p>Received status reason.</p>"
      }
    },
    "AllowedOperations": {
      "target": "com.amazonaws.licensemanager#AllowedOperationList",
      "traits": {
        "smithy.api#documentation": "<p>Allowed operations.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
  }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
  "type": "enum",
  "members": {
    "PENDING_WORKFLOW": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "PENDING_WORKFLOW"
      }
    },
    "PENDING_ACCEPT": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "PENDING_ACCEPT"
      }
    },
    "REJECTED": {
      "target": "smithy.api#Unit",
      "traits": {

```

```

        "smithy.api#enumValue": "REJECTED"
    }
},
"ACTIVE": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "ACTIVE"
    }
},
"FAILED_WORKFLOW": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "FAILED_WORKFLOW"
    }
},
"DELETED": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "DELETED"
    }
},
"DISABLED": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "DISABLED"
    }
},
"WORKFLOW_COMPLETED": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "WORKFLOW_COMPLETED"
    }
}
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",

    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    }
}

```

```

    }
  },
  "traits": {
    "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 308
  }
},
"com.amazonaws.licensemanager#RejectGrant": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#RejectGrantRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#RejectGrantResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
  }
},
"com.amazonaws.licensemanager#RejectGrantRequest":
{
  "type": "structure",
  "members": {
    "GrantArn": {

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```

        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",

            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#RenewType": {
    "type": "enum",
    "members": {
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "WEEKLY": {

```

```

        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Weekly"
        }
    },
    "MONTHLY": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "Monthly"
        }
    }
},
"com.amazonaws.licensemanager#ReportContext": {
    "type": "structure",
    "members": {
        "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
    }
},
"com.amazonaws.licensemanager#ReportFrequency": {
    "type": "structure",
    "members": {
        "value": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated. \n      The only supported value is <code>1</code>.</p>"
            }
        },
        "period": {
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",
            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
        }
    }
}

```

```

    },
    "traits": {
      "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportFrequencyType": {
    "type": "enum",
    "members":
  {
    "DAY": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "DAY"
      }
    },
    "WEEK": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "WEEK"
      }
    },
    "MONTH": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "MONTH"
      }
    }
  }
},
"com.amazonaws.licensemanager#ReportGenerator": {
  "type": "structure",
  "members": {
    "ReportGeneratorName": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Name of the report generator.</p>"
      }
    }
  },
  "ReportType": {
    "target": "com.amazonaws.licensemanager#ReportTypeList",
    "traits": {
      "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
    }
  },
  "ReportContext": {
    "target": "com.amazonaws.licensemanager#ReportContext",
    "traits": {

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```

    "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
  },
  "ReportFrequency": {
    "target": "com.amazonaws.licensemanager#ReportFrequency",
    "traits": {
      "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
    }
  },
  "LicenseManagerReportGeneratorArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
    }
  },
  "LastRunStatus": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
    }
  },
  "LastRunFailureReason": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
    }
  },
  "LastReportGenerationTime": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Time
the last report was generated at.</p>"
    }
  },
  "ReportCreatorAccount": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
    }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the report generator.</p>"
    }
  },
  "S3Location": {

```



```

        "target": "com.amazonaws.licensemanager#S3Location",
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },

    "CreateTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the report was created.</p>"
        }
    },
    "Tags": {
        "target": "com.amazonaws.licensemanager#TagList",
        "traits": {
            "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    },
    "com.amazonaws.licensemanager#ReportGeneratorList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
        }
    },
    "com.amazonaws.licensemanager#ReportGeneratorName": {
        "type": "string",

        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }
            }
        }
    }

```

```

    },
    "LICENSE_CONFIGURATION_USAGE_REPORT": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "LicenseConfigurationUsageReport"
      }
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ReportType"
    }
  },
  "com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
      "ResourceId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>ID of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Type of resource.</p>"
        }
      },
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "Platform": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Platform of the resource.</p>"
        }
      },
      "PlatformVersion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
        }
      }
    }
  }
}

```

```

    },
    "ResourceOwningAccountId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Details about a resource.</p>"
  }
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ResourceInventory"
  }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "aws.protocols#awsQueryError": {
      "code": "ResourceLimitExceeded",
      "httpResponseCode": 400
    },
    "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 400
  }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
  "type": "structure",
  "members": {
    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "aws.protocols#awsQueryError": {
      "code": "InvalidResource.NotFound",
      "httpResponseCode": 400
    },
    "smithy.api#documentation": "<p>The resource cannot be found.</p>",

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```

    "smithy.api#error": "client",
    "smithy.api#httpError": 400
  }
},
"com.amazonaws.licensemanager#ResourceType": {
  "type": "enum",
  "members": {
    "EC2_INSTANCE": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "EC2_INSTANCE"
      }
    },
    "EC2_HOST": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "EC2_HOST"
      }
    },
    "EC2_AMI": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "EC2_AMI"
      }
    },
    "RDS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "RDS"
      }
    },
    "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
      }
    }
  }
},
"com.amazonaws.licensemanager#S3Location": {
  "type": "structure",
  "members": {
    "bucket": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Name of the S3 bucket reports are published
to.</p>"
      }
    }
  }
}

```

```

    },
    "keyPrefix": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published to.</p>"
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalServerError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation":
          "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 400
        },
        "smithy.api#pattern": "^[\\s\\S]+$"
      }
    }
  }

```

```

    },
    "com.amazonaws.licensemanager#String": {
      "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#String"
      }
    },
    "com.amazonaws.licensemanager#Tag": {
      "type": "structure",
      "members": {
        "Key": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The tag key.</p>"
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The tag value.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about the tags for a resource. For more information about tagging support in\n      License Manager, see the <a href=\"https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html\">TagResource</a> operation.</p>"
      }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#String"
      }
    },
    "com.amazonaws.licensemanager#TagList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Tag"
      }
    },
    "com.amazonaws.licensemanager#TagResource": {
      "type": "operation",

```

```

"input": {
  "target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
  "target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
  {
    "target": "com.amazonaws.licensemanager#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanager#AuthorizationException"
  },
  {
    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
  },
  {
    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
  },
  {
    "target": "com.amazonaws.licensemanager#ServerInternalException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Adds the specified tags to the specified resource. The following
resources support\n      tagging in License Manager:</p>\n      <ul>\n          <li>\n              <p>Licenses</p>\n          </li>\n          <li>\n              <p>Grants</p>\n          </li>\n          <li>\n              <p>License
configurations</p>\n          </li>\n          <li>\n              <p>Report generators</p>\n          </li>\n      </ul>"
  }
},
"com.amazonaws.licensemanager#TagResourceRequest": {
  "type": "structure",
  "members": {
    "ResourceArn":
  {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource. The following
examples provide an example\n      ARN for each supported resource in License Manager:</p>\n      <ul>\n          <li>\n              <p>Licenses -\n                  <code>arn:aws:license-manager::111122223333:license:l-
EXAMPLE2da7646d6861033667f20e895</code>\n              </p>\n          </li>\n          <li>\n              <p>Grants
-\n                  <code>arn:aws:license-manager::111122223333:grant:g-
EXAMPLE7b19f4a0ab73679b0beb52707</code>\n              </p>\n          </li>\n          <li>\n              <p>License configurations -\n                  <code>arn:aws:license-manager:us-east-1:111122223333:license-
configuration:lic-EXAMPLE6a788d4c8acd4264ff0ecf2ed2d</code>\n              </p>\n          </li>\n          <li>\n              <p>Report generators -\n                  <code>arn:aws:license-manager:us-east-1:111122223333:report-
generator:r-EXAMPLE825b4a4f8fe5a3e0c88824e5fc6</code>\n              </p>\n          </li>\n      </ul>",
    }
  }
}

```

```

        "smithy.api#required": {}
    },
    "Tags": {
        "target": "com.amazonaws.licensemanager#TagList",
        "traits": {
            "smithy.api#documentation": "<p>One or more tags.</p>",
            "smithy.api#required": {}
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#TokenData": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        }
    },
    "TokenType": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Type of token generated. The supported value is  
<code>REFRESH_TOKEN</code>.</p>"
        }
    },
    "LicenseArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
        }
    },
    "ExpirationTime": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits":

```



```

{
    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
  },
  "TokenProperties": {
    "target": "com.amazonaws.licensemanager#MaxSize3StringList",
    "traits": {
      "smithy.api#documentation": "<p>Data specified by the caller.</p>"
    }
  },
  "RoleArns": {
    "target": "com.amazonaws.licensemanager#ArnList",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
    }
  },
  "Status": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes a token.</p>"
  },
  "com.amazonaws.licensemanager#TokenList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#TokenData"
    }
  },
  "com.amazonaws.licensemanager#TokenString": {
    "type": "string",
    "traits": {
      "smithy.api#length": {
        "min": 0,
        "max": 4096
      },
      "smithy.api#pattern": "^\\S+$"
    }
  },
  "com.amazonaws.licensemanager#TokenType": {
    "type": "enum",
    "members": {

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```

    "REFRESH_TOKEN": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "REFRESH_TOKEN"
      }
    }
  },
  "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request again.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#UntagResource": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#UntagResourceRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#UntagResourceResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ]
  },

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```

    "traits": {
      "smithy.api#documentation": "<p>Removes the specified tags from the specified resource.</p>"
    }
  },
  "com.amazonaws.licensemanager#UntagResourceRequest": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation":
            "<p>Amazon Resource Name (ARN) of the resource.</p>",
          "smithy.api#required": {}
        }
      },
      "TagKeys": {
        "target": "com.amazonaws.licensemanager#TagKeyList",
        "traits": {
          "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      }
    ]
  }
}

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```

    },
    {
      "target": "com.amazonaws.licensemanager#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
  },
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
  "type": "structure",
  "members": {
    "LicenseConfigurationArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
        "smithy.api#required": {}
      }
    },
    "LicenseConfigurationStatus": {
      "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
      "traits": {
        "smithy.api#documentation": "<p>New status of the license configuration.</p>"
      }
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n      configuration is licenseAffinityToHost.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

```

```

        "traits": {
            "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
        }
    },
    "LicenseCountHardLimit": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
        }
    },
    "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>New name of the license configuration.</p>"
        }
    },
    "Description": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>New description of the license configuration.</p>"
        }
    },
    "ProductInformationList": {
        "target": "com.amazonaws.licensemanager#ProductInformationList",
        "traits": {
            "smithy.api#documentation": "<p>New product information.</p>"
        }
    },
    "DisassociateWhenNotFound": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
}

```

```

    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates a report generator.</p>\n<p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

```

```

        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
        "smithy.api#required": {}
    },
    "ReportGeneratorName": {
        "target": "com.amazonaws.licensemanager#ReportGeneratorName",
        "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
        }
    },
    "Type": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n    <ul>\n        <li>\n            <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n        </li>\n        <li>\n            <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n        </li>\n    </ul>",
            "smithy.api#required": {}
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
        }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
        }
    },
    "ClientToken": {
        "target": "com.amazonaws.licensemanager#ClientRequestToken",
        "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
            "smithy.api#required": {}
        }
    },
    "Description": {

```

```

        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Description of the report
generator.</p>"
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
        },
        {
            "target": "com.amazonaws.licensemanager#LicenseUsageException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
    ],

```



```

    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p>\n    <p>You can update the license specifications of AMIs, instances, and hosts.\n    specifications for launch templates and CloudFormation templates, \n    as they send license configurations to the operation that creates the resource.</p>"
  }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
        "smithy.api#required": {}
      }
    },
    "AddLicenseSpecifications": {
      "target": "com.amazonaws.licensemanager#LicenseSpecifications",
      "traits": {
        "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
      }
    },
    "RemoveLicenseSpecifications": {
      "target": "com.amazonaws.licensemanager#LicenseSpecifications",
      "traits": {
        "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
  "type": "structure",
  "members": {},
  "traits": {
    "smithy.api#output": {}
  }
},

```

```

"com.amazonaws.licensemanager#UpdateServiceSettings": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
  }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
  "type": "structure",
  "members": {
    "S3BucketArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.</p>"
      }
    },
    "SnsTopicArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
      }
    }
  },

```

```

    "OrganizationConfiguration": {
      "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
      "traits": {
        "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
      }
    },
    "EnableCrossAccountsDiscovery": {
      "target": "com.amazonaws.licensemanager#BoxBoolean",
      "traits": {
        "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
  "type": "structure",
  "members": {},
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#UsageOperation": {
  "type": "string",
  "traits": {
    "smithy.api#length": {
      "min": 0,
      "max": 50
    }
  }
},
"com.amazonaws.licensemanager#ValidationException": {
  "type": "structure",
  "members": {
    "Message": {
      "target": "com.amazonaws.licensemanager#Message"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
    "smithy.api#error": "client",
    "smithy.api#httpError": 400
  }
}
}

```

```
}
CheckoutBorrowLicense
Initialize stack step
  spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
  spanInitializeEnd
Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
CheckInLicense
Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
```

```

SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
        return err
    }

```

```

}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err
!= nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options);
err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
    return err
}

```



```

    }
    if err = addSpanBuildRequestEnd(stack); err != nil {
        return err
    }
    return
    nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "GetLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

```

```

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
//
This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

```

```

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

// Tags to add to the license. For more information about tagging support in
// License Manager, see the [TagResource]operation.
//
// [TagResource]: https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html
Tags []types.Tag

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{},
middleware.After)
if err != nil {
return err
}

```

```

}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err
= addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return
err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}

```

AWS SDK for Go

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AssociateLicense

Initialize stack step

spanInitializeStart

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

spanInitializeEnd

Serialize stack step

spanBuildRequestStart

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

SetCredentialSourceMiddleware

UserAgent

AddTimeOffsetMiddleware

RecursionDetection

spanBuildRequestEnd

Finalize stack step

spanRetryLoop

Retry

RetryMetricsHeader

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

```

AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    //
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
    //
    // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
    //

```

```

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```



```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
    if err != nil {
        return
    }
    err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
return err
}
if err = addCredentialSource(stack, options); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options);

```

```

err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckoutBorrowLicense",
}
}
{
    "smithy": "2.0",
    "shapes": {
        "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
            "type": "integer"
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
            "type": "long"
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
            },
            "errors": [
                {

```

```

        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
    },
    {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
    }
],
"traits": {
    "smithy.api#documentation": "<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account.</p>",
    "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/subscription/DeregisterSubscriptionProvider"
    },
    "smithy.api#idempotent": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
    "type": "structure",
    "members": {
        "SubscriptionProviderArn": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the subscription provider resource to deregister.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {

```

```

"type": "structure",
"members": {
  "Name": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
    }
  },
  "Values": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
    "traits": {
      "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
    }
  },
  "Operator": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
    "traits": {
      "smithy.api#documentation": "<p>An operator for filtering results.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n    Filters can be used to match a set of resources by specific criteria.</p>"
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
      }
    ]
  }
}

```

```

    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Get details for a Bring Your Own License (BYOL) subscription that's  
registered to your account.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/subscription/GetRegisteredSubscriptionProvider"
    },
    "smithy.api#idempotent": {}
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
  "type": "structure",
  "members": {
    "SubscriptionProviderArn": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
      "traits": {
        "smithy.api#documentation":
          "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
  "type": "structure",
  "members": {
    "SubscriptionProviderArn": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) for the BYOL registration  
resource specified in the request.</p>"
      }
    },
    "SubscriptionProviderSource": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

```



```

    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings for your account.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/subscription/GetServiceSettings"
    },
    "smithy.api#idempotent": {}
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
    "type": "structure",
    "members": {}
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
    "type": "structure",
    "members": {
      "LinuxSubscriptionsDiscovery": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
        "traits": {
          "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
        }
      },
      "LinuxSubscriptionsDiscoverySettings": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
        "traits": {
          "smithy.api#documentation": "<p>Lists
the settings defined for Linux subscriptions discovery. The settings include ifn    Organizations integration has
been enabled, and which Regions data will be aggregated from.</p>"
        }
      },
      "Status": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
        "traits": {
          "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
        }
      }
    }
  }

```



```

    },
    "StatusMessage": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
      "traits": {
        "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
      }
    },
    },
    "HomeRegions": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
      "traits": {
        "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n    subscriptions.</p>"
      }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
    "type": "structure",
    "members": {
      "AmiId": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
        }
      },
      "InstanceID": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
        }
      },
      "InstanceType": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The instance type of the resource.</p>"
        }
      },
      "AccountID": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
        }
      },
      "Status": {
        "target": "smithy.api#String",
        "traits": {

```

```

    "smithy.api#documentation": "<p>The status of the instance.</p>"
  },
  "Region": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
    }
  },
  "UsageOperation": {
    "target": "smithy.api#String",

"traits": {
    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n    <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n    operation values</a> in the <i>License Manager User
Guide</i>.</p>"
  },
  "ProductCode": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
    "traits": {
      "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n    operation values</a> in the <i>License Manager User Guide</i> .</p>"
    }
  },
  "LastUpdatedTime": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The time in which the last discovery updated the instance
details.</p>"
    }
  },
  "SubscriptionName": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The name of the license subscription that the instance uses.</p>"
    }
  },
  "OsVersion": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The operating system software version that runs on your
instance.</p>"
    }
  },
  "SubscriptionProviderCreateTime": {

```



```

    "smithy.api#documentation":
"<p>An exception occurred with the service.</p>",
    "smithy.api#error": "server"
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
  "type": "service",
  "version": "2018-05-10",
  "operations": [
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
    }
  ],
  "traits": {
    "aws.api#service": {
      "sdkId": "License Manager Linux Subscriptions",
      "arnNamespace": "license-manager-linux-subscriptions",
      "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
    }
  }
}

```

```

},
"aws.auth#sigv4": {
  "name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
  "additionalAllowedHeaders": [
    "*",
    "content-type",
    "x-amz-content-sha256",
    "x-amz-user-agent",
    "x-amzn-platform-id",
    "x-amzn-trace-id"
  ],
  "additionalExposedHeaders": [
    "x-amzn-errortype",
    "x-amzn-requestid",
    "x-amzn-trace-id"
  ]
},
"smithy.api#documentation": "<p>With License Manager,
you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    }
  }
},

```

```

    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ]
    }
  ],
  "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
  "type": "error"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ]
        }
      ]
    }
  ]
}

```

```

    ]
}

    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
  },
  {
    "conditions": [],
    "endpoint": {
      "url": {
        "ref": "Endpoint"
      },
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
"type": "tree"

}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ]
    }
  ]
}

```

```

    }
  ],
  "assign": "PartitionResult"
}
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {

            "ref": "UseFIPS"
          },
          true
        ]
      },
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ]
  }
],

"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              }
            ]
          }
        ]
      }
    ]
  },

  "supportsFIPS"
]
},

```



```

        {
            "fn": "booleanEquals",
            "argv": [
                true,
                {
                    "fn": "getAttr",
                    "argv": [

                        {
                            "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                    ]
                }
            ]
        }
    ],
    "rules": [
        {
            "conditions": [],

"rules": [

            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],

        "type": "tree"
    }
    ],
    "type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
    "type": "error"
}
],
"type": "tree"
},

```

```

    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "fn": "getAttr",
                  "argv": [
                    {
                      "ref": "PartitionResult"
                    },
                    "supportsFIPS"
                  ]
                },
                true
              ]
            }
          ],
          "rules": [
            {
              "conditions": [],
              "rules": [
                {
                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",

                    "properties": {},

                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}

```

```

        }
      ],
      "type": "tree"
    }
  ],
  "type": "tree"
},
{
  "conditions": [],
  "error": "FIPS is enabled
but this partition does not support FIPS",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ]
}
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsDualStack"
            ]
          }
        ]
      }
    ]
  }
]
}

```

```

],
"rules": [
  {
    "conditions": [],
    "rules": [

{
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
"type": "tree"
}

],
"type": "tree"
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  "type": "tree"
}
],

```

```

        "type": "tree"
      }
    ],
    "type": "tree"
  },
  {
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
  }
],
"type": "tree"
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      }
    },
    {
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      }
    },
    {
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {

```

```

        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-
1.api.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",

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        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {

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        "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }

},
"params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
}
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
}

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    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS":
false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,

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        "UseDualStack": true
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    }
}

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    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },

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        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
        "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "OrganizationIntegration": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
            "traits": {
                "smithy.api#documentation":
                "<p>Details if you have enabled resource discovery across your accounts in Organizations.</p>",
                "smithy.api#required": {}
            }
        }
    }
}

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    },
    "traits": {
      "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n  subscriptions.</p>",
      "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/subscription/ListLinuxSubscriptionInstances"
      },
      "smithy.api#idempotent": {},
      "smithy.api#paginated": {
        "inputToken": "NextToken",
        "outputToken": "NextToken",
        "pageSize": "MaxResults",
        "items": "Instances"
      }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
    "type": "structure",
    "members": {
      "Filters": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",

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    "traits": {
        "smithy.api#documentation": "<p>An array of structures that you can use to filter the results by your
specified criteria. \n \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the
\n \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n
\n<code>Value</code>, such as <code>us-west</code>.</p>\n        <p>For each filter, you can specify one of the
following values for the <code>Name</code> key \n \tto streamline results:</p>\n        <ul>\n            <li>\n
<p>\n                <code>AccountID</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>AmiID</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>DualSubscription</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>InstanceID</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>InstanceType</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>ProductCode</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>Region</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>UsageOperation</code>\n            </p>\n            </li>\n        </ul>\n        <p>For each filter, you can use
one of the following <code>Operator</code>
values to \n \tdefine the behavior of the filter:</p>\n        <ul>\n            <li>\n
<p>\n                <code>contains</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>equals</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>Notequal</code>\n            </p>\n            </li>\n        </ul>"
    }
},
    "MaxResults": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
        }
    },
    "NextToken": {
        "target": "smithy.api#String",
        "traits": {
            "smithy.api#documentation": "<p>A token to specify where to
start paginating. This \n\tis the nextToken from a previously truncated response.</p>",
            "smithy.api#length": {
                "min": 1,
                "max": 16384
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
    }
},
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {

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        "outputToken": "NextToken",
        "pageSize": "MaxResults",

        "items": "Subscriptions"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
    "type": "structure",
    "members": {
        "Filters": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n    more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>Subscription</code> with an optional operator to see subscriptions that match,\n    partially match, or don't
match a certain subscription's name.</p>\n    <p>The valid names for this filter are:</p>\n    <ul>\n
<li>\n        <p>\n            <code>Subscription</code>\n        </p>\n    </li>\n    </ul>\n
<p>The
valid Operators for this filter are:</p>\n    <ul>\n        <li>\n            <p>\n
<code>contains</code>\n        </p>\n        </li>\n        <li>\n            <p>\n
<code>>equals</code>\n        </p>\n        </li>\n        <li>\n            <p>\n
<code>Notequal</code>\n        </p>\n        </li>\n    </ul>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\tis
the nextToken from a previously truncated response.</p>",
                "smithy.api#length": {
                    "min": 1,
                    "max": 16384
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
},

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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
  "type": "structure",
  "members": {
    "Subscriptions": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
      "traits": {
        "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
      }
    },
    "NextToken": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects.</p>"
      }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
    "type": "operation",
    "input": {
      "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
    },
    "output": {
      "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
      "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/subscription/ListRegisteredSubscriptionProviders"
      }
    }
  }
}

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    },
    "smithy.api#idempotent": {},
    "smithy.api#paginated": {
      "inputToken": "NextToken",
      "outputToken": "NextToken",
      "pageSize": "MaxResults",
      "items": "RegisteredSubscriptionProviders"
    }
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
  "type": "structure",
  "members": {
    "SubscriptionProviderSources": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
      "traits": {
        "smithy.api#documentation": "<p>To filter your results, specify which subscription providers to
return \n\t\t\t\tin the list.</p>"
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>The maximum items to return in a request.</p>",
        "smithy.api#range": {
          "min": 1,
          "max": 100
        }
      }
    }
  }
},
"NextToken": {
  "target": "smithy.api#String",
  "traits": {
    "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\t\t\t\tis the
nextToken from a previously truncated response.</p>"
  }
},
"traits": {
  "smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
  "type": "structure",
  "members": {
    "RegisteredSubscriptionProviders": {

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    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
    "type": "structure",
    "members": {
      "resourceArn": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
        "traits": {
          "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource for which to
list metadata tags.</p>",
          "smithy.api#httpLabel": {},
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
    "type": "structure",
    "members": {
      "tags": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
        "traits": {
          "smithy.api#documentation": "<p>The metadata tags for the requested resource.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "EQUAL",
          "value": "Equal",
          "documentation": "Equal operator"
        },
        {
          "name": "NOT_EQUAL",
          "value": "NotEqual",
          "documentation": "Not equal operator"
        }
      ]
    }
  }
}

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        "name": "CONTAINS",
        "value": "Contains",
        "documentation": "Contains operator"
    }
},
"smithy.api#length": {
    "min": 1,
    "max": 20
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration":
{
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerError"
        },
        {

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    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
      "type": "structure",
      "members": {
        "SubscriptionProviderSource": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
          "traits": {
            "smithy.api#documentation":
              "<p>The Linux subscription provider that you registered.</p>"
          }
        },
        "SubscriptionProviderArn": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
          }
        },
        "SubscriptionProviderStatus": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
          "traits": {
            "smithy.api#documentation": "<p>Indicates the status of the registration action for the Linux
subscription provider \n\t\t\t\tthat you requested.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider":
    {
      "type": "structure",
      "members": {
        "SubscriptionProviderArn": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
          }
        },
        "SubscriptionProviderSource": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
          "traits": {
            "smithy.api#documentation": "<p>A supported third-party Linux subscription provider. License
Manager currently supports \n\t\t\t\tRed Hat subscriptions.</p>"
          }
        }
      },
    },

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    "SecretArn": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Secrets Manager secret
that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is
the offline token.</p>"
      }
    },
    "SubscriptionProviderStatus": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
      "traits": {
        "smithy.api#documentation": "<p>Indicates the status of your registered Linux subscription provider
access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions,
\n\t\t\tthis is the status of the offline token.</p>"
      }
    },
    "SubscriptionProviderStatusMessage": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>A detailed message that's associated with your BYOL subscription
\n\t\t\tprovider token status.</p>"
      }
    },
    "LastSuccessfulDataRetrievalTime": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The timestamp from the last time that License Manager accessed
third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider.</p>"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>A third-party provider for operating system (OS) platform software and
license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider,
License Manager can get subscription data from the registered provider.</p>"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
      "type": "structure",
      "members": {

```



```

    "message": {
      "target": "smithy.api#String"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Unable to find the requested Amazon Web Services resource.</p>",
    "smithy.api#error": "client"
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
  "type": "string",
  "traits": {
    "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
  "type": "string",
  "traits": {
    "smithy.api#enum": [
      {
        "name": "InProgress",
        "value": "InProgress",
        "documentation": "InProgress status"
      },
      {
        "name": "Completed",
        "value": "Completed",
        "documentation": "Completed status"
      },
      {
        "name": "Successful",
        "value": "Successful",
        "documentation": "Successful status"
      },
      {
        "name": "Failed",
        "value": "Failed",
        "documentation": "Failed status"
      }
    ]
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
  "type": "list",
  "member": {

```

```

    "target": "smithy.api#String",
    "traits": {
      "smithy.api#length": {
        "min": 1,
        "max": 100
      }
    },
    "traits": {
      "smithy.api#length": {
        "min": 1,
        "max": 100
      },
      "smithy.api#uniqueItems": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
      "type": "map",
      "key": {
        "target": "smithy.api#String"
      },
      "value": {
        "target": "smithy.api#String"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the subscription.</p>"
          }
        },
        "Type": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n    Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n    Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
          }
        },
        "InstanceCount": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>The total amount of running instances using this

```

```

subscription.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
    "type": "string",
    "traits": {
      "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "RedHat",
          "value": "RedHat",
          "documentation": "RedHat subscription provider namespace"
        }
      ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "ACTIVE",
          "value": "ACTIVE",
          "documentation": "ACTIVE status"
        }
      ]
    }
  }
}

```

```

    },
    {
      "name": "INVALID",
      "value": "INVALID",
      "documentation": "INVALID status"
    },
    {
      "name": "PENDING",
      "value": "PENDING",
      "documentation": "PENDING status"
    }
  ]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
  "type": "list",
  "member": {
    "target": "smithy.api#String"
  },
  "traits": {
    "smithy.api#length": {
      "min": 0,
      "max": 50
    },
    "smithy.api#sensitive": {}
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
    }
  ],
  "traits": {

```



```

"value": {
  "target": "smithy.api#String"
},
"traits": {
  "smithy.api#length": {
    "min": 0,
    "max": 50
  },
  "smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
  "type": "structure",
  "members": {
    "message": {
      "target": "smithy.api#String"
    }
  },
  "traits": {
    "smithy.api#documentation":
"<p>The request was denied due to request throttling.</p>",
    "smithy.api#error": "client"
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerErrorException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Remove one or more metadata tag from the specified Amazon Web
Services resource.</p>",
    "smithy.api#http": {
      "method": "DELETE",
      "uri": "/tags/{resourceArn}"
    },
    "smithy.api#idempotent": {}
  }
}

```

```

    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
    "type": "structure",
    "members": {
      "resourceArn": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
        "traits": {
          "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from.</p>",
          "smithy.api#httpLabel": {},
          "smithy.api#required": {}
        }
      },
    },
    "tagKeys": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
      "traits": {
        "smithy.api#documentation": "<p>A list of metadata tag keys to remove from the requested resource.</p>",
        "smithy.api#httpQuery": "tagKeys",
        "smithy.api#required": {}
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
    }
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
    }
  ]
}

```

```

    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/subscription/UpdateServiceSettings"
    },
    "smithy.api#idempotent": {}
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
  "type": "structure",
  "members": {
    "LinuxSubscriptionsDiscovery": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
      "traits": {
        "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
        "smithy.api#required": {}
      }
    },
    "LinuxSubscriptionsDiscoverySettings": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
      "traits": {
        "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n    integration has been enabled, and which Regions data will be aggregated from.</p>",
        "smithy.api#required": {}
      }
    },
    "AllowUpdate": {
      "target":
"smithy.api#Boolean",
      "traits": {
        "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n    allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
      }
    }
  }
},

```



```

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
  "type": "structure",
  "members": {
    "LinuxSubscriptionsDiscovery": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
      "traits": {
        "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
      }
    },
    "LinuxSubscriptionsDiscoverySettings": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
      "traits": {
        "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n    integration has been enabled, and which Regions data will be aggregated from.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
      "traits": {
        "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
      }
    },
    "StatusMessage": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
      "traits": {
        "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings current status.</p>"
      }
    }
  },
  "HomeRegions": {
    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
    "traits": {
      "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated data for Linux\n    subscriptions.</p>"
    }
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
  "type": "structure",
  "members": {
    "message": {
      "target": "smithy.api#String"
    }
  },

```

```

        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx,
        "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //

```

```

// Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
// trials.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

// A token from Grafana Labs that ties your Amazon Web Services account with a
// Grafana Labs account. For more information, see [Link your account with Grafana Labs].
//
// [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
GrafanaToken *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput
struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {

```

```

return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack,

```

```

c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack);
err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    //
    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn

```

```

*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack,
options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

```



```

}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack,
c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack);
err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckoutLicense",
    }
}
CreateLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint

```

OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent

AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Directory",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        },
        "ActiveDirectorySettings": {
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
            "traits": {
              "smithy.api#documentation": "<p>The <code>ActiveDirectorySettings</code> resource contains details about \n\t\t\tthe Active Directory, including network access details such as domain name and IP \n\t\t\taddresses, and the credential provider for user administration.</p>"
            }
          },
          "ActiveDirectoryType": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
            "traits": {
              "smithy.api#documentation": "<p>The type of Active Directory either a self-managed Active Directory or an \n\t\t\tAmazon Web Services Managed Active Directory.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about an Active Directory identity
```

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provider.</p>"
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#ActiveDirectorySettings": {
    "type": "structure",
    "members": {
      "DomainName": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The domain name for the Active Directory.</p>"
        }
      },
      "DomainIpv4List": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#IPv4List",
        "traits": {
          "smithy.api#documentation": "<p>A list of domain IPv4 addresses that are used for the Active
Directory.</p>",
          "smithy.api#length": {
            "min": 1,
            "max": 2
          }
        }
      },
      "DomainCredentialsProvider": {
        "target":
"com.amazonaws.licenseanagerusersubscriptions#CredentialsProvider",
        "traits": {
          "smithy.api#documentation": "<p>Points to the <code>CredentialsProvider</code> resource that
contains \n\t\t\tinformation about the credential provider for user administration.</p>"
        }
      },
      "DomainNetworkSettings": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#DomainNetworkSettings",
        "traits": {
          "smithy.api#documentation": "<p>The <code>DomainNetworkSettings</code> resource contains an
array of \n\t\t\tsubnets that apply for the Active Directory.</p>"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Contains network access and credential details that are needed for
\n\t\t\tuser administration in the Active Directory.</p>"
      }
    },
    "com.amazonaws.licenseanagerusersubscriptions#ActiveDirectoryType":
{
  "type": "string",
  "traits": {

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    "smithy.api#enum": [
      {
        "name": "SELF_MANAGED",
        "value": "SELF_MANAGED",
        "documentation": "SELF_MANAGED type of Active Directory"
      },
      {
        "name": "AWS_MANAGED",
        "value": "AWS_MANAGED",
        "documentation": "AWS_MANAGED type of Active Directory"
      }
    ]
  },
  "com.amazonaws.licensemanagerusersubscriptions#Arn": {
    "type": "string",
    "traits": {
      "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#AssociateUser":
  {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      }
    ]
  }
}

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```

        "traits": {
            "smithy.api#documentation": "<p>The domain name of the Active Directory that contains
information for the user to associate.</p>"
        }
    },
    "Tags": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#Tags",
        "traits": {
            "smithy.api#documentation": "<p>The tags that apply for the user association.</p>"
        }
    },
    "traits": {

"smithy.api#input": {}
    },
    "com.amazonaws.licenseanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licenseanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licenseanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n\t\t\tresource.</p>",
            "smithy.api#error": "server"
        }
    },

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```

"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Creates a network endpoint for the Remote Desktop Services (RDS) license server.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/license-server/CreateLicenseServerEndpoint"
    },
    "smithy.api#idempotent": {}
  }
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
  "type": "structure",
  "members": {
    "IdentityProviderArn": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",

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    "traits": {
      "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the
<code>IdentityProvider</code> resource that contains details about a registered identity provider. In the case
of Active Directory, that can be a self-managed Active Directory or an Amazon Web Services Managed
Active Directory that contains user identity details.</p>",
      "smithy.api#required": {}
    },
    "LicenseServerSettings": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
      "traits": {
        "smithy.api#documentation": "<p>The <code>LicenseServerSettings</code> resource to create for
the endpoint. The settings include the type of license server and the Secrets Manager secret that enables
administrators to add or remove users associated with the license server.</p>",
        "smithy.api#required": {}
      }
    },
    "Tags": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
      "traits": {
        "smithy.api#documentation": "<p>The tags that apply for the license server endpoint.</p>"
      }
    },
    "traits": {
      "smithy.api#input": {}
    },
    "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse":
  {
    "type": "structure",
    "members": {
      "IdentityProviderArn": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
        "traits": {
          "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider
specified in the request.</p>"
        }
      },
      "LicenseServerEndpointArn": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
        "traits": {
          "smithy.api#documentation": "<p>The ARN of the <code>LicenseServerEndpoint</code>
resource.</p>"
        }
      }
    },
    "traits": {

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        "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
    }
},
"traits": {
    "smithy.api#documentation": "<p>Deletes a <code>LicenseServerEndpoint</code> resource.</p>",
    "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/license-server/DeleteLicenseServerEndpoint"
    },
    "smithy.api#idempotent": {}
},
"com.amazonaws.licenseanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
    "type": "structure",
    "members": {
        "LicenseServerEndpointArn": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#Arn",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the  
<code>LicenseServerEndpoint</code> \n\t\t\t\tresource to delete.</p>",
                "smithy.api#required": {}
            }
        },
        "ServerType": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#ServerType",
            "traits": {
                "smithy.api#documentation": "<p>The type of License Server that the delete request refers to.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licenseanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
    "type": "structure",
    "members": {
        "LicenseServerEndpoint": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#LicenseServerEndpoint",
            "traits": {
                "smithy.api#documentation": "<p>Shows details from the <code>LicenseServerEndpoint</code>  
resource that was deleted.</p>"
            }
        }
    },
    "traits": {

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    "traits": {
      "smithy.api#output": {}
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the Active Directory identity provider from License Manager user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/DeregisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest":

```

```

{
  "type": "structure",
  "members": {
    "IdentityProvider": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
      "traits": {
        "smithy.api#documentation": "<p>An object that specifies details for the Active Directory identity
provider.</p>"
      }
    },
    "Product": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n      </p>"
      }
    },
    "IdentityProviderArn": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#Arn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the identity
provider to deregister.</p>"
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
      "IdentityProviderSummary": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
          "smithy.api#required": {}
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},

```

```

"com.amazonaws.licenseanagerusersubscriptions#Directory": {
  "type": "string",
  "traits": {
    "smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
  }
},
"com.amazonaws.licenseanagerusersubscriptions#DisassociateUser": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest"
  },
  "output": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/user/DisassociateUser"
    },
    "smithy.api#idempotent": {}
  }
}

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    },
    "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the Active Directory identity provider for the
user.</p>"
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the EC2 instance which provides user-based
subscriptions.</p>"
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the Active
Directory identity provider.</p>"
          }
        },
        "InstanceUserArn": {
          "target": "com.amazonaws.licenseanagerusersubscriptions#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the user to disassociate
from the EC2 instance.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the Active Directory that contains
information for the user to disassociate.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licenseanagerusersubscriptions#DisassociateUserResponse": {
      "type": "structure",
      "members": {

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    "InstanceUserSummary":
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary",
        "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licenseanagerusersubscriptions#DomainNetworkSettings": {
    "type": "structure",
    "members": {
        "Subnets": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#Subnets",
            "traits": {
                "smithy.api#documentation": "<p>Contains a list of subnets that apply for the Active Directory
domain.</p>",
                "smithy.api#length": {
                    "min": 1
                },
                "smithy.api#required": {}
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Contains network settings for the Active Directory domain.</p>"
        }
    },
    "com.amazonaws.licenseanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            }
        },
    },

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    "traits": {
      "smithy.api#documentation": "<p>The <code>Settings</code> resource contains details about the
registered \n\t\t\tidentity providers product related configuration settings, such as the \n\t\t\tsubnets to provision VPC
endpoints.</p>",
      "smithy.api#required": {}
    },
    "Product": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
        "smithy.api#required": {}
      }
    },
    "Status": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The status of the
identity provider.</p>",
        "smithy.api#required": {}
      }
    },
    "IdentityProviderArn": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider.</p>"
      }
    },
    "FailureMessage": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes an identity provider.</p>"
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
      "type": "structure",

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"members": {
  "InstanceId": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "smithy.api#required": {}
    }
  },
  "Status": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The status of an EC2 instance resource.</p>",
      "smithy.api#required": {}
    }
  },
  "Products": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#StringList",
    "traits": {
      "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
      "smithy.api#required": {}
    }
  },
  "LastStatusCheckDate": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The date of the last status check.</p>"
    }
  },
  "StatusMessage": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
  },
  "com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList":
{
  "type": "list",
  "member": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummary"
  }
},
"com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary": {

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```

"type": "structure",
"members": {
  "Username": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
      "smithy.api#required": {}
    }
  },
  "InstanceId": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The ID of the EC2 instance that provides user-based
subscriptions.</p>",
      "smithy.api#required": {}
    }
  },
  "IdentityProvider": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
    "traits": {
      "smithy.api#documentation": "<p>The <code>IdentityProvider</code> resource specifies details
about the identity provider.</p>",
      "smithy.api#required": {}
    }
  },
  "Status": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
      "smithy.api#required": {}
    }
  },
  "InstanceUserArn": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
    "traits": {
      "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the instance
user.</p>"
    }
  },
  "StatusMessage": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
    }
  },
  "Domain": {
    "target": "smithy.api#String",

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    "traits": {
      "smithy.api#documentation": "<p>The domain name of the Active Directory that contains the user
information for the product subscription.</p>"
    }
  },
  "AssociationDate": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
    }
  },
  "DisassociationDate": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
  },
  "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummary"
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#InternalServerError": {
    "type": "structure",
    "members": {
      "message": {
        "target": "smithy.api#String"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
      "smithy.api#error": "server",
      "smithy.api#httpError": 500
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#IPv4": {
    "type": "string",
    "traits": {
      "smithy.api#pattern": "^((?:25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
    }
  },

```

```

"com.amazonaws.licensemanagerusersubscriptions#IPv4List": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#IPv4"
  }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
  "type": "service",
  "version": "2018-05-10",
  "operations": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
    }
  ]
}

```



```

    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"
    },
    {

"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
    }
  ],
  "traits": {
    "aws.api#service": {
      "sdkId": "License Manager User Subscriptions",
      "arnNamespace": "license-manager-user-subscriptions",
      "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
    },
    "aws.auth#sigv4": {
      "name": "license-manager-user-subscriptions"
    },
    "aws.protocols#restJson1": {},
    "smithy.api#cors": {
      "additionalAllowedHeaders": [
        "*",
        "content-type",
        "x-amz-content-sha256",
        "x-amz-user-agent",
        "x-amzn-platform-id",
        "x-amzn-trace-id",
        "content-length",

"x-api-key",
        "authorization",
        "x-amz-date",
        "x-amz-security-token",
        "Access-Control-Allow-Headers",
        "Access-Control-Allow-Methods",
        "Access-Control-Allow-Origin"
      ],
      "additionalExposedHeaders": [
        "x-amzn-errortype",
        "x-amzn-requestid",
        "x-amzn-trace-id"
      ]
    }
  }
}

```

[illegible]

```

    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "endpoint": {
        "url": {
          "ref": "Endpoint"
        },
      },
      "properties": {},
      "headers": {}
    },
    {
      "type": "endpoint"
    }
  ],
  "type": "tree"

```

```

    },
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ],
    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "aws.partition",

            "argv": [
              {
                "ref": "Region"
              }
            ],
            "assign": "PartitionResult"
          }
        ],
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                ],
              }
            ],
            true
          }
        ],
      },
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
        ],
        true
      }
    ]
  }

```

```

    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              true,
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          },
          {
            "fn": "booleanEquals",
            "argv": [
              true,
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsDualStack"
                ]
              }
            ]
          }
        ],
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      }
    ],
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  }
}

```

```

    }

    ],

    "type": "tree"
  },
  {
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",

    "type": "error"
  }
],
"type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [

{
      "ref": "UseFIPS"
    },
    true
  ]
}
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "fn": "getAttr",
            "argv": [

{
      "ref": "PartitionResult"
    },
    "supportsFIPS"
  ]
},
    true
  ]
}
],
"rules": [

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        {
            "conditions": [],
            "endpoint": {

"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}

    ],
    "type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "rules": [
        {

"conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                        ],

```

```

        "supportsDualStack"
    ]
}

    ]
    }
    ],
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }

    ],
    "type": "tree"
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",

        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{

```



```

        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
    }
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect":
{
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",

"UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        }
    ]
}

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    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS":
true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint":

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{
    "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": true
}
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint":
{
            "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
}

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    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS
and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {

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```

        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack
disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    }
}

```

```

    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},

```

```

{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack":
false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration:
Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
],
"version": "1.0"

```

```

    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
    "type": "structure",
    "members": {
      "ProvisioningStatus": {
        "target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
        "traits": {
          "smithy.api#documentation": "<p>The current state of the provisioning process for the RDS
\n\t\t\t\t\tlicense server.</p>"
        }
      },
      "HealthStatus": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
        "traits": {
          "smithy.api#documentation": "<p>The health status of the RDS license server.</p>"
        }
      },
      "Ipv4Address": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>A list of domain IPv4 addresses that are used for the RDS
\n\t\t\t\t\tlicense server.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Information
about a Remote Desktop Services (RDS) license server.</p>"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
    "type": "structure",
    "members": {
      "IdentityProviderArn": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider that's
associated with \n\t\t\t\t\tthe RDS license server endpoint.</p>"
        }
      },
      "ServerType": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
        "traits": {
          "smithy.api#documentation": "<p>The type of license server.</p>"
        }
      }
    }
  }
}

```



```

        "documentation": ""
    },
    {
        "name": "DELETED",
        "value": "DELETED",
        "documentation": ""
    }
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "HEALTHY",
                "value": "HEALTHY",
                "documentation": ""
            },
            {
                "name": "UNHEALTHY",
                "value": "UNHEALTHY",
                "documentation": ""
            },
            {
                "name": "NOT_APPLICABLE",
                "value": "NOT_APPLICABLE",
                "documentation": ""
            }
        ]
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
    "type": "structure",
    "members": {
        "ServerType": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
            "traits": {
                "smithy.api#documentation": "<p>The type of license server.</p>",
                "smithy.api#required": {}
            }
        }
    }
}

```

```

    },
    "ServerSettings": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ServerSettings",
      "traits": {
        "smithy.api#documentation": "<p>The <code>ServerSettings</code> resource contains the settings
for
your \n\t\t\tserver.</p>",
        "smithy.api#required": {}
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>The settings to configure your license server.</p>"
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProviders": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest"
    },
    "output": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {

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```

    "smithy.api#documentation": "<p>Lists the Active Directory identity providers for user-based
subscriptions.</p>",
    "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/identity-provider/ListIdentityProviders"
    },
    "smithy.api#paginated": {
        "inputToken": "NextToken",
        "outputToken": "NextToken",
        "pageSize": "MaxResults",
        "items": "IdentityProviderSummaries"
    }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>You can use
the following filters to streamline results:</p>\n    <ul>\n        <li>\n            <p>Product</p>\n        </li>\n        <li>\n            <p>DirectoryId</p>\n        </li>\n    </ul>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "\n<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licenseanagerusersubscriptions#ListIdentityProvidersResponse": {
    "type": "structure",
    "members": {

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{
  "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
},
{
  "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
}
],
"traits": {
  "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
  "smithy.api#http": {
    "code": 200,
    "method": "POST",
    "uri": "/instance/ListInstances"
  },
  "smithy.api#paginated": {
    "inputToken": "NextToken",
    "outputToken": "NextToken",
    "pageSize": "MaxResults",
    "items": "InstanceSummaries"
  }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListInstancesRequest": {
  "type": "structure",
  "members":
{
  "MaxResults": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
    "traits": {
      "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
    }
  },
  "NextToken": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"
    }
  },
  "Filters": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
    "traits": {
      "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n  <li>\n    <p>Status</p>\n  </li>\n  <li>\n    <p>InstanceId</p>\n  </li>\n</ul>"
    }
  }
}
}

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    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#ListInstancesResponse": {
    "type": "structure",
    "members": {
      "InstanceSummaries": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>An array of InstanceSummary resources that
contain details about the instances that provide user-based subscriptions and also meet the request
criteria.</p>"
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The next
token used for paginated responses. When this field isn't empty, there are additional elements that the service
hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#ListLicenseServerEndpoints": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ListLicenseServerEndpointsRequest"
    },
    "output": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ListLicenseServerEndpointsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
      },
      {

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        "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
    }
],
"traits": {
    "smithy.api#documentation": "<p>List the Remote Desktop Services (RDS) License Server endpoints
</p>",
    "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/license-server/ListLicenseServerEndpoints"
    },

    "smithy.api#paginated": {
        "inputToken": "NextToken",
        "outputToken": "NextToken",
        "pageSize": "MaxResults",
        "items": "LicenseServerEndpoints"
    }
},
"com.amazonaws.licenseanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>",
                "smithy.api#range": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "Filters": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n      <li>\n          <p>IdentityProviderArn</p>\n      </li>\n    </ul>"
            }
        }
    },
    "NextToken": {

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        "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
    },
    {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
    }
],
"traits": {
    "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
    "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/user/ListProductSubscriptions"
    },
    "smithy.api#paginated": {
        "inputToken": "NextToken",
        "outputToken": "NextToken",
        "pageSize": "MaxResults",
        "items": "ProductUserSummaries"
    }
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsRequest":
{
    "type": "structure",
    "members": {
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n      </p>"
            }
        },
        "IdentityProvider": {

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    "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
    "traits": {
      "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
      "smithy.api#required": {}
    }
  },
  "MaxResults": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
    "traits": {
      "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
    }
  },
  "Filters": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
    "traits": {
      "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n      <li>\n        <p>Status</p>\n      </li>\n      <li>\n        <p>Username</p>\n
</li>\n      <li>\n        <p>Domain</p>\n      </li>\n    </ul>"
    }
  },
  "NextToken": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>A token to specify where to start paginating.
This is the nextToken \n\tfrom a previously truncated response.</p>"
    }
  }
},
"traits": {
  "smithy.api#input": {}
}
},
"com.amazonaws.licenseanagerusersubscriptions#ListProductSubscriptionsResponse": {
  "type": "structure",
  "members": {
    "ProductUserSummaries": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummaryList",
      "traits": {
        "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
      }
    }
  },
  "NextToken": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't
empty, \n\tthere are additional elements that the service

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hasn't included in this request. Use this token \n\t with the next request to retrieve additional objects.</p>"

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    }
  },
  "traits": {
    "smithy.api#output": {}
  },
  "com.amazonaws.licenseanagerusersubscriptions#ListTagsForResource": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ListTagsForResourceRequest"
    },
    "output": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ListTagsForResourceResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
      },
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target":
"com.amazonaws.licenseanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Returns the list of tags for the specified resource.</p>",
      "smithy.api#http": {
        "method": "GET",
        "uri": "/tags/{ResourceArn}"
      },
      "smithy.api#readonly": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#ListTagsForResourceRequest": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceArn",
        "traits": {
          "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource whose tags
you want to retrieve.</p>",
          "smithy.api#httpLabel": {},
          "smithy.api#required": {}
        }
      }
    }
  }
}
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    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licenseanagerusersubscriptions#ListTagsForResourceResponse": {
  "type": "structure",
  "members": {
    "Tags": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#Tags",
      "traits": {
        "smithy.api#documentation": "<p>The tags for the specified resource.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociations": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest"
  },
  "output": {
    "target": "com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException"
    }
  ],

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    {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/user/ListUserAssociations"
    },
    "smithy.api#paginated": {
      "inputToken": "NextToken",
      "outputToken": "NextToken",
      "pageSize": "MaxResults",
      "items": "InstanceUserSummaries"
    }
  }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsRequest": {
  "type": "structure",
  "members": {
    "InstanceId": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The ID of the EC2 instance, which
provides user-based subscriptions.</p>",
        "smithy.api#required": {}
      }
    },
    "IdentityProvider": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
      "traits": {
        "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
        "smithy.api#required": {}
      }
    },
    "MaxResults": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#BoxInteger",
      "traits": {
        "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
      }
    },
    "Filters": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#FilterList",
      "traits": {

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    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n    <ul>\n      <li>\n        <p>Status</p>\n      </li>\n      <li>\n        <p>Username</p>\n      </li>\n      <li>\n        <p>Domain</p>\n      </li>\n    </ul>"
  },
  "NextToken": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "\n\tfrom a previously truncated response.</p>"
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licenseanagerusersubscriptions#ListUserAssociationsResponse": {
  "type": "structure",
  "members": {
    "InstanceUserSummaries": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#InstanceUserSummaryList",
      "traits": {
        "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
      }
    },
    "NextToken": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary": {
  "type": "structure",
  "members": {
    "Username": {
      "target": "smithy.api#String",
      "traits": {
        "smithy.api#documentation": "<p>The user name from the identity provider for this product

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user.</p>",
    "smithy.api#required": {}
  },
  "Product": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
      "smithy.api#required": {}
    }
  },
  "IdentityProvider": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
    "traits": {
      "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
      "smithy.api#required": {}
    }
  },
  "Status": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The status of a product for this user.</p>",
      "smithy.api#required": {}
    }
  },
  "ProductUserArn": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
    "traits": {
      "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) for this product user.</p>"
    }
  },
  "StatusMessage": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The status message for a product for this user.</p>"
    }
  },
  "Domain": {
    "target": "smithy.api#String",
    "traits": {
      "smithy.api#documentation": "<p>The domain name of the Active Directory that contains the user
information for the product subscription.</p>"
    }
  },
  "SubscriptionStartDate": {
    "target": "smithy.api#String",
    "traits": {

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        "smithy.api#documentation": "<p>The start date of a subscription.</p>"
    },
    "SubscriptionEndDate": {
        "target": "smithy.api#String",
        "traits": {
            "smithy.api#documentation": "<p>The end date of a subscription.</p>"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A summary of the user-based subscription products for a specific user.</p>"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type":
"list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
        "type": "structure",
        "members": {
            "RdsSalCredentialsProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>CredentialsProvider</code> resource contains a reference to \n\t\t\tthe credentials provider that's used for RDS license server user administration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },

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"errors": [
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
  },
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
  },
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
  },
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
  },
  {
    "target":
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
  },
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
  },
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
  "smithy.api#http": {
    "code": 200,
    "method": "POST",
    "uri": "/identity-provider/RegisterIdentityProvider"
  },
  "smithy.api#idempotent": {}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
  "type": "structure",
  "members": {
    "IdentityProvider": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
      "traits": {
        "smithy.api#documentation": "<p>An object that specifies details for the identity provider to
register.</p>",
        "smithy.api#required": {}
      }
    },
    "Product": {
      "target": "smithy.api#String",

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    "traits": {
      "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n      </p>",
      "smithy.api#required": {}
    }
  },
  "Settings": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
    "traits": {
      {
        "smithy.api#documentation": "<p>The registered identity providers product related configuration
\n\t\t\tsettings such as the subnets to provision VPC endpoints.</p>"
      }
    },
    "Tags": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
      "traits": {
        "smithy.api#documentation": "<p>The tags that apply to the identity provider's registration.</p>"
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
  "type": "structure",
  "members": {
    "IdentityProviderSummary": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
      "traits": {
        "smithy.api#documentation":
          "<p>Metadata that describes the results of an identity provider operation.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
  "type": "string",
  "traits": {
    "smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-
\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
  }
}

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    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
    "type": "structure",
    "members": {
      "message": {
        "target": "smithy.api#String"
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>The resource couldn't be found.</p>",

"smithy.api#error": "client",
      "smithy.api#httpError": 404
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
    "type": "structure",
    "members": {
      "SecretId": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The ID of the Secrets Manager secret that contains
credentials.</p>",
          "smithy.api#length": {
            "min": 1
          }
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Contains a credentials secret that's stored in Secrets Manager.</p>"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
    "type": "string",
    "traits": {
      "smithy.api#length": {
        "min": 5,
        "max": 200
      },
      "smithy.api#pattern": "^sg-([0-9a-z]{8})([0-9a-z]{17}))$"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
    "type": "structure",
    "members": {

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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerErrorException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    }
  ],
  {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
  }
],
"traits": {
  "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
  "smithy.api#http": {
    "code": 200,
    "method": "POST",
    "uri": "/user/StopProductSubscription"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
  "type": "structure",
  "members": {
    "Username": {
      "target": "smithy.api#String",

```

```

        "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>"
        }
    },
    "IdentityProvider": {
        "target":
"com.amazonaws.licenseanagerusersubscriptions#IdentityProvider",
        "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>"
        }
    },
    "Product": {
        "target": "smithy.api#String",
        "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n      </p>"
        }
    },
    "ProductUserArn": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#Arn",
        "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the product user.</p>"
        }
    },
    "Domain": {
        "target": "smithy.api#String",
        "traits": {
            "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains the user
for whom to stop the product \n\t\t\tsubscription.</p>"
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licenseanagerusersubscriptions#StopProductSubscriptionResponse": {
    "type": "structure",
    "members": {
        "ProductUserSummary": {
            "target": "com.amazonaws.licenseanagerusersubscriptions#ProductUserSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
}

```

```

    }
}
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licenseanagerusersubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnet": {
    "type": "string",
    "traits": {
        "smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
    }
},
"com.amazonaws.licenseanagerusersubscriptions#Subnets": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#Subnet"
    }
},
"com.amazonaws.licenseanagerusersubscriptions#TagKeyList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#sensitive": {}
    }
},
"com.amazonaws.licenseanagerusersubscriptions#TagResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#TagResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#TagResourceResponse"
    },

```

```

"errors": [
  {
    "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerError"
  },
  {
    "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
  },
  {
    "target": "com.amazonaws.licenseanagerusersubscriptions#ValidationException"
  }
],
"traits": {
  "smithy.api#documentation":
"<p>Adds tags to a resource.</p>",
  "smithy.api#http": {
    "method": "PUT",
    "uri": "/tags/{ResourceArn}"
  },
  "smithy.api#idempotent": {}
},
"com.amazonaws.licenseanagerusersubscriptions#TagResourceRequest": {
  "type": "structure",
  "members": {
    "ResourceArn": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceArn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want
to tag.</p>",
        "smithy.api#httpLabel": {},
        "smithy.api#required": {}
      }
    },
    "Tags": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#Tags",
      "traits": {
        "smithy.api#documentation":
"<p>The tags to apply to the specified resource.</p>",
        "smithy.api#required": {}
      }
    }
  },
  "traits": {
    "smithy.api#input": {}
  }
},
"com.amazonaws.licenseanagerusersubscriptions#TagResourceResponse": {
  "type": "structure",

```

```

    "members": {},
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#Tags": {
    "type": "map",
    "key": {
      "target": "smithy.api#String"
    },
    "value": {
      "target": "smithy.api#String"
    },
    "traits": {
      "smithy.api#length": {
        "min": 0,
        "max": 50
      },
      "smithy.api#sensitive": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#ThrottlingException":
{
  "type": "structure",
  "members": {
    "message": {
      "target": "smithy.api#String"
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
    "smithy.api#error": "client"
  }
},
  "com.amazonaws.licenseanagerusersubscriptions#UntagResource": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#UntagResourceRequest"
    },
    "output": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#UntagResourceResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licenseanagerusersubscriptions#InternalServerErrorException"
      },
      {

```

```

    "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceNotFoundException"
  },
  ],
  "traits": {
    "smithy.api#documentation": "<p>Removes tags from a resource.</p>",
    "smithy.api#http": {
      "method": "DELETE",
      "uri": "/tags/{ResourceArn}"
    },
    "smithy.api#idempotent": {}
  },
  },
  "com.amazonaws.licenseanagerusersubscriptions#UntagResourceRequest": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#ResourceArn",
        "traits": {
          "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want
to remove tags from.</p>",
          "smithy.api#httpLabel": {},
          "smithy.api#required": {}
        }
      },
    },
    "TagKeys": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#TagKeyList",
      "traits": {
        "smithy.api#documentation": "<p>The tag keys to remove from the resource.</p>",
        "smithy.api#httpQuery": "tagKeys",
        "smithy.api#required": {}
      }
    },
  },
  "traits": {
    "smithy.api#input": {}
  },
  },
  "com.amazonaws.licenseanagerusersubscriptions#UntagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
      "smithy.api#output": {}
    },
  },
  },
  "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettings": {
    "type": "operation",

```

```
"input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
    {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
],
"traits": {
    "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered identity\n\t\t\t\tprovider.</p>",
    "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/identity-provider/UpdateIdentityProviderSettings"
    },
    "smithy.api#idempotent": {}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code></p>"
            }
        }
    }
}
```



```

    "IdentityProviderArn": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#Arn",
      "traits": {
        "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider to
update.</p>"
      }
    },
    "UpdateSettings": {
      "target": "com.amazonaws.licenseanagerusersubscriptions#UpdateSettings",
      "traits": {
        "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n\t\t\t\t\tupdate any combination of settings in a single operation such as the:</p>\n
<ul>\n      <li>\n        <p>Subnets which you want to add to provision VPC endpoints.</p>\n      </li>\n
      <li>\n        <p>Subnets which you want to remove the VPC endpoints from.</p>\n      </li>\n
      <li>\n        <p>Security
group ID which permits traffic to the VPC endpoints.</p>\n      </li>\n    </ul>",
        "smithy.api#required": {}
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
    "type": "structure",
    "members": {
      "IdentityProviderSummary": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#IdentityProviderSummary",
        "traits": {
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licenseanagerusersubscriptions#UpdateSettings": {
    "type": "structure",
    "members": {
      "AddSubnets": {
        "target": "com.amazonaws.licenseanagerusersubscriptions#Subnets",
        "traits": {
          "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n\t\t\t\t\trequire connectivity to activation servers.</p>",
          "smithy.api#required": {}
        }
      }
    }
  }
}

```

[illegible]

OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

// Checks in the specified license. Check in a license when it is no longer in use.

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))  
(*CheckInLicenseOutput, error) {  
    if params == nil {  
        params = &CheckInLicenseInput{}  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,  
c.addOperationCheckInLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
  
    out := result.(*CheckInLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}
```

type CheckInLicenseInput struct {

```
    // License consumption token.  
    //  
    // This member is required.  
    LicenseConsumptionToken *string
```

```
    // License beneficiary.  
    Beneficiary *string
```

```
    noSmithyDocumentSerde  
}
```

type

```
    CheckInLicenseOutput struct {  
        // Metadata pertaining to the operation's result.  
        ResultMetadata middleware.Metadata
```



```

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if
    err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = addRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addSpanRetryLoop(stack, options); err != nil {

```

```

    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
    return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
    return err
}
if
err = addCredentialSource(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
if err = addSpanInitializeStart(stack); err != nil {
    return err
}

```

```

}
if err = addSpanInitializeEnd(stack); err != nil {
    return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
    return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckInLicense",
}
}
CheckoutLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity

```

ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

1.442 proto-otlp 0.19.0

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1.443 gokrb5 8.4.4

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1.444 etcd-api 3.5.18

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1.445 aws-sdk-go 1.53.15

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  "version": "2.0",
  "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
  "operations": {
    "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
```

<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",

"DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",

"DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",

"ListIdentityProviders":

"<p>Lists the identity providers for user-based subscriptions.</p>",

"ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",

"ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",

"ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",

"RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",

"StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p>

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"StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",

"UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"

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"shapes": {

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"base": "<p>You don't have sufficient access to perform this action.</p>",

"refs": {

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"refs": {

"IdentityProvider\$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"

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"refs": {

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    "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
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"ConflictException": {
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  "refs": {
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  "base": null,
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  "refs": {
    "FilterList$member": null
  }
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  "base": null,
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match one or more sets of key-value pairs that you specify.</p>",

"ListProductSubscriptionsRequest\$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify.</p>",

"ListUserAssociationsRequest\$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify.</p>"

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    "refs": {
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      "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
      "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
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      "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
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providers operation.</p>"
    }
  },
  "InstanceSummary": {
    "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "InstanceSummaryList$member": null
    }
  },
  "InstanceSummaryList": {
    "base": null,
    "refs": {
      "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
    }
  },
  "InstanceUserSummary": {
    "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
      "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

      "InstanceUserSummaryList$member": null
    }
  },
  "InstanceUserSummaryList": {
    "base": null,
    "refs": {
      "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
    }
  },
  "InternalServerError": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "ListIdentityProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListIdentityProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
}

```

```

"ListInstancesRequest": {
  "base": null,
  "refs": {
  }
},
"ListInstancesResponse": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsRequest": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsResponse": {
  "base": null,
  "refs": {
  }
},
"ProductUserSummary": {
  "base": "<p>The summary of the user-based subscription products for a user.</p>",
  "refs": {
    "ProductUserSummaryList$member": null,
    "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>",
    "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>"
  }
},
"ProductUserSummaryList": {
  "base": null,
  "refs": {
    "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product subscriptions operation.</p>"
  }
},
"RegisterIdentityProviderRequest": {

```

```

"base": null,
"refs": {
}
},
"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": "<p>The resource couldn't be found.</p>",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication
between resources in your VPC and the VPC endpoint for activation servers.</p>",
"UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
}
},
"ServiceQuotaExceededException": {
"base": "<p>The request failed because a service quota is exceeded.</p>",
"refs": {
}
},
"Settings": {
"base": "<p>The registered identity providers product related configuration settings such as the subnets to
provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group
should permit inbound TCP port 1688 communication
from resources in the VPC.</p>",
"refs": {
"IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product
related configuration settings such as the subnets to provision VPC endpoints.</p>",
"RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related
configuration settings such as the subnets to provision VPC endpoints.</p>"
}
},
"SettingsSubnetsList": {
"base": null,
"refs": {
"Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
}
},
"StartProductSubscriptionRequest": {

```

```

    "base": null,
    "refs": {
    }
  },
  "StartProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionResponse": {
    "base": null,
    "refs": {
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  },
  "String":
  {
    "base": null,
    "refs": {
      "AccessDeniedException$message": null,
      "ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
      "AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",
      "AssociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "AssociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",
      "ConflictException$message": null,
      "DeregisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
      "DisassociateUserRequest$Domain": "<p>The domain name of the user.</p>",
      "DisassociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "DisassociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",

      "Filter$Attribute": "<p>The name of an attribute to use as a filter.</p>",
      "Filter$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",
      "Filter$Value": "<p>Value of the filter.</p>",
      "IdentityProviderSummary$FailureMessage": "<p>The failure message associated with an identity
provider.</p>",
      "IdentityProviderSummary$Product": "<p>The name of the user-based subscription product.</p>",
      "IdentityProviderSummary$Status": "<p>The status of an identity provider.</p>",
      "InstanceSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "InstanceSummary$LastStatusCheckDate": "<p>The date of the last status check.</p>",
      "InstanceSummary$Status": "<p>The status of an EC2 instance resource.</p>",

```


"InstanceSummary\$StatusMessage": "<p>The status message for an EC2 instance.</p>",

"InstanceUserSummary\$AssociationDate": "<p>The date a user was associated with an EC2 instance.</p>",

"InstanceUserSummary\$DisassociationDate": "<p>The date a user was disassociated from an EC2 instance.</p>",

"InstanceUserSummary\$Domain": "<p>The domain name of the user.</p>",

"InstanceUserSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceUserSummary\$Status": "<p>The status of a user associated with an EC2 instance.</p>",

"InstanceUserSummary\$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",

"InstanceUserSummary\$Username": "<p>The user name from the identity provider for the user.</p>",

"InternalServerException\$message": null,

"ListIdentityProvidersRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListIdentityProvidersResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesResponse\$NextToken":

"<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ListProductSubscriptionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"ListUserAssociationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ProductUserSummary\$Domain": "<p>The domain name of the user.</p>",

"ProductUserSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"ProductUserSummary\$Status": "<p>The status of a product for a user.</p>",

"ProductUserSummary\$StatusMessage": "<p>The status message for a product for a user.</p>",

"ProductUserSummary\$SubscriptionEndDate": "<p>The end date of a subscription.</p>",

"ProductUserSummary\$SubscriptionStartDate": "<p>The start date of a subscription.</p>",

"ProductUserSummary\$Username": "<p>The user name from the identity provider of the user.</p>",

"RegisterIdentityProviderRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ResourceNotFoundException\$message": null,

"ServiceQuotaExceededException\$message": null,

"StartProductSubscriptionRequest\$Domain": "<p>The domain name of the user.</p>",

"StartProductSubscriptionRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"StartProductSubscriptionRequest\$Username": "<p>The user name from the identity provider of the user.</p>",

"StopProductSubscriptionRequest\$Domain": "<p>The domain name of the user.</p>",

"StopProductSubscriptionRequest\$Product":

"<p>The name of the user-based subscription product.</p>",

"StopProductSubscriptionRequest\$Username": "<p>The user name from the identity provider for the user.</p>",

"StringList\$member": null,

"ThrottlingException\$message": null,

"UpdateIdentityProviderSettingsRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ValidationException\$message": null

```

    }
  },
  "StringList": {
    "base": null,
    "refs": {
      "InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
    }
  },
  "Subnet": {
    "base": null,
    "refs": {
      "SettingsSubnetsList$member": null,
      "Subnets$member": null
    }
  },
  "Subnets": {
    "base": null,
    "refs": {
      "UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers.</p>",
      "UpdateSettings$RemoveSubnets":
        "<p>The ID of one or more subnets to remove.</p>"
    }
  },
  "ThrottlingException": {
    "base": "<p>The request was denied because of request throttling. Retry the request.</p>",
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateSettings": {
    "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints"
    }
  }
}

```

```

from.</p> </li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  },
  "ValidationException": {
    "base": "<p>A parameter is not valid.</p>",
    "refs": {
    }
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",

```

```

      "argv": [
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          "ref": "Region"
        }
      ],
      "assign": "PartitionResult"
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        },
        {
          "fn": "parseURL",

          "argv": [
            {
              "ref": "Endpoint"
            }
          ],
          "assign": "url"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
          "type": "error"
        }
      ]
    }
  ]
}

```

```

    },
    {
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      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
          "type": "error"
        },
        {
          "conditions": [],
          "endpoint": {
            "url": {
              "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    }
  ],
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ]
  }

```

```

},
{
  "fn": "booleanEquals",
  "argv": [
    {
      "ref": "UseDualStack"
    },
    true
  ]
}
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              }
            ]
          }
        ]
      }
    ],
    "supportsFIPS"
  }
],
{
  "fn": "booleanEquals",
  "argv": [
    true,
    {
      "fn": "getAttr",
      "argv": [
        {
          "ref": "PartitionResult"
        },
        "supportsDualStack"
      ]
    }
  ]
}
]
}

```

```

    ],
    "type": "tree",
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        "conditions": [],
        "endpoint": {
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  },
  {
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    "type": "error"
  }
]
},
{
  "conditions": [
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      "argv": [
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          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}

```

```

        },
        "supportsFIPS"
    ]
}
]
}
],
"type": "tree",
"rules": [
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
],
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [

```



```

        true,

    {
        "fn": "getAttr",
        "argv": [
            {
                "ref": "PartitionResult"
            },
            "supportsDualStack"
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},

            "headers": {}
        },
        "type": "endpoint"
    }
],
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]

```

```
}
```

AWS SDK for Go

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```
{
```

```
"pagination": {
```

```
  "ListLinuxSubscriptionInstances": {
```

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```

```
    "output_token": "NextToken",
```

```
    "limit_key": "MaxResults",
```

```
    "result_key": "Instances"
```

```
  },
```

```
  "ListLinuxSubscriptions": {
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```

```
    "output_token": "NextToken",
```

```
    "limit_key": "MaxResults",
```

```
    "result_key": "Subscriptions"
```

```
  }
```

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}
```

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}
```

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{
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  "version": "2.0",
```

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  "metadata": {
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    "apiVersion": "2018-08-01",
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    "endpointPrefix": "license-manager",
```

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    "jsonVersion": "1.1",
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```
    "protocol": "json",
```

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    "serviceFullName": "AWS License Manager",
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    "serviceId": "License Manager",
```

```
    "signatureVersion": "v4",
```

```
    "targetPrefix": "AWSLicenseManager",
```

```
    "uid": "license-manager-2018-08-01"
```

```
  },
```

```
  "operations": {
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```
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```

```
      "http": {
```

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```

```
        "requestUri": "/"
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```
      },
```

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```
      "output": { "shape": "AcceptGrantResponse" },
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      "errors": [
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```
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        { "shape": "InvalidParameterValueException" },
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        { "shape": "AuthorizationException" },
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```
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```
        { "shape": "RateLimitExceededException" },
```

```

    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
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  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckInLicenseRequest"},
  "output":{"shape":"CheckInLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ConflictException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"CheckoutBorrowLicense":{
  "name":"CheckoutBorrowLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckoutBorrowLicenseRequest"},
  "output":{"shape":"CheckoutBorrowLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"NoEntitlementsAllowedException"},
    {"shape":"EntitlementNotAllowedException"},
    {"shape":"UnsupportedDigitalSignatureMethodException"},
    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"CheckoutLicense":{
  "name":"CheckoutLicense",
  "http":{

```

```

    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CheckoutLicenseRequest"},
  "output":{"shape":"CheckoutLicenseResponse"},
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    {"shape":"UnsupportedDigitalSignatureMethodException"},
    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
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  "output":{"shape":"CreateGrantResponse"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"}
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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateGrantVersionRequest"},
  "output":{"shape":"CreateGrantVersionResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},

```

```

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        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
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    "output":{"shape":"CreateLicenseResponse"},
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        {"shape":"InvalidParameterValueException"},
        {"shape":"RedirectException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"},
        {"shape":"ServerInternalException"}
    ]
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"CreateLicenseConfiguration":{
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    "http":{
        "method":"POST",
        "requestUri":"/"
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    "input":{"shape":"CreateLicenseConfigurationRequest"},
    "output":{"shape":"CreateLicenseConfigurationResponse"},
    "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"ResourceLimitExceededException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
},
"CreateLicenseConversionTaskForResource":{
    "name":"CreateLicenseConversionTaskForResource",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },

```

```

    },
    "input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
    "output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ValidationException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "CreateLicenseManagerReportGenerator":{
    "name":"CreateLicenseManagerReportGenerator",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CreateLicenseManagerReportGeneratorRequest"},
    "output":{"shape":"CreateLicenseManagerReportGeneratorResponse"},
    "errors":[
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      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"AccessDeniedException"},
      {"shape":"ResourceNotFoundException"}
    ]
  },
  "CreateLicenseVersion":{
    "name":"CreateLicenseVersion",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CreateLicenseVersionRequest"},
    "output":{"shape":"CreateLicenseVersionResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"RedirectException"},
      {"shape":"ConflictException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"RateLimitExceededException"}
    ]
  }
}

```

```

    ],
    },
    "CreateToken":{
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        "http":{
            "method":"POST",
            "requestUri":"/"
        },
    },
    "input":{"shape":"CreateTokenRequest"},
    "output":{"shape":"CreateTokenResponse"},
    "errors":[
        {"shape":"ValidationException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"},
        {"shape":"ResourceLimitExceededException"},
        {"shape":"ServerInternalException"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"RedirectException"}
    ]
},
"DeleteGrant":{
    "name":"DeleteGrant",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
},
"input":{"shape":"DeleteGrantRequest"},
"output":{"shape":"DeleteGrantResponse"},
"errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
]
},
"DeleteLicense":{
    "name":"DeleteLicense",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
},
"input":{"shape":"DeleteLicenseRequest"},
"output":{"shape":"DeleteLicenseResponse"},
"errors":[

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```

    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RedirectException"},
    {"shape":"ConflictException"},

    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"DeleteLicenseConfiguration":{
  "name":"DeleteLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseConfigurationRequest"},
  "output":{"shape":"DeleteLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"DeleteLicenseManagerReportGenerator":{
  "name":"DeleteLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"DeleteLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"DeleteToken":{
  "name":"DeleteToken",

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"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"DeleteTokenRequest"},
"output":{"shape":"DeleteTokenResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"RedirectException"}
]
},
"ExtendLicenseConsumption":{
  "name":"ExtendLicenseConsumption",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ExtendLicenseConsumptionRequest"},
  "output":{"shape":"ExtendLicenseConsumptionResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"GetAccessToken":{
  "name":"GetAccessToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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{"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"GetGrant":{
  "name":"GetGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetGrantRequest"},
  "output":{"shape":"GetGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicense":{
  "name":"GetLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseRequest"},
  "output":{"shape":"GetLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[]
}

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```

    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseManagerReportGenerator":{
  "name":"GetLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

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"input":{"shape":"GetLicenseUsageRequest"},
"output":{"shape":"GetLicenseUsageResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

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    },
    "input":{"shape":"ListDistributedGrantsRequest"},
    "output":{"shape":"ListDistributedGrantsResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListFailuresForLicenseConfigurationOperations":{"
    "name":"ListFailuresForLicenseConfigurationOperations",
    "http":{"
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
    "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListLicenseConfigurations":{"
    "name":"ListLicenseConfigurations",
    "http":{"
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListLicenseConfigurationsRequest"},
    "output":{"shape":"ListLicenseConfigurationsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"FilterLimitExceededException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListLicenseConversionTasks":{"
    "name":"ListLicenseConversionTasks",

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"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
}

```

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},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},

    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},

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        {"shape": "AuthorizationException"},
        {"shape": "AccessDeniedException"},
        {"shape": "RateLimitExceededException"}
    ]
},
"ListReceivedGrantsForOrganization": {
    "name": "ListReceivedGrantsForOrganization",
    "http": {
        "method": "POST",
        "requestUri": "/"
    },
    "input": {"shape": "ListReceivedGrantsForOrganizationRequest"},
    "output": {"shape": "ListReceivedGrantsForOrganizationResponse"},
    "errors": [
        {"shape": "ValidationException"},
        {"shape": "InvalidParameterValueException"},
        {"shape": "ResourceLimitExceededException"},
        {"shape": "ServerInternalException"},
        {"shape": "AuthorizationException"},
        {"shape": "AccessDeniedException"},
        {"shape": "RateLimitExceededException"}
    ]
},
"ListReceivedLicenses": {
    "name": "ListReceivedLicenses",
    "http": {
        "method": "POST",
        "requestUri": "/"
    },
    "input": {"shape": "ListReceivedLicensesRequest"},
    "output": {"shape": "ListReceivedLicensesResponse"},
    "errors": [
        {"shape": "ValidationException"},
        {"shape": "InvalidParameterValueException"},
        {"shape": "ResourceLimitExceededException"},
        {"shape": "ServerInternalException"},
        {"shape": "AuthorizationException"},
        {"shape": "AccessDeniedException"},
        {"shape": "RateLimitExceededException"}
    ]
},
"ListReceivedLicensesForOrganization": {
    "name": "ListReceivedLicensesForOrganization",
    "http": {
        "method": "POST",
        "requestUri": "/"
    },
    "input": {"shape": "ListReceivedLicensesForOrganizationRequest"},

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"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListResourceInventory":{"
  "name":"ListResourceInventory",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTagsForResource":{"
  "name":"ListTagsForResource",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{"
  "name":"ListTokens",
  "http":{"

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    "method":"POST",

    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
}

```

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},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ]
}

```

```

    ],
  },
  "UpdateLicenseManagerReportGenerator": {
    "name": "UpdateLicenseManagerReportGenerator",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
  },
  "input": { "shape": "UpdateLicenseManagerReportGeneratorRequest" },
  "output": { "shape": "UpdateLicenseManagerReportGeneratorResponse" },
  "errors": [
    { "shape": "ValidationException" },
    { "shape": "InvalidParameterValueException" },
    { "shape": "RateLimitExceededException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "AccessDeniedException" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "ResourceLimitExceededException" }
  ]
},
"UpdateLicenseSpecificationsForResource": {
  "name": "UpdateLicenseSpecificationsForResource",
  "http": {
    "method": "POST",
    "requestUri": "/"
  }
},
"input": { "shape": "UpdateLicenseSpecificationsForResourceRequest" },
"output": { "shape": "UpdateLicenseSpecificationsForResourceResponse" },
"errors": [
  { "shape": "InvalidParameterValueException" },
  { "shape": "InvalidResourceStateException" },
  { "shape": "LicenseUsageException" },
  { "shape": "ServerInternalException" },
  { "shape": "AuthorizationException" },
  { "shape": "AccessDeniedException" },
  { "shape": "RateLimitExceededException" }
]
},
"UpdateServiceSettings": {
  "name": "UpdateServiceSettings",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": { "shape": "UpdateServiceSettingsRequest" },
  "output": { "shape": "UpdateServiceSettingsResponse" },

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"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
      "ExtendConsumptionLicense",
      "ListPurchasedLicenses",

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    "CreateToken"
  ],
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-
Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=, @.-]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{"shape":"DateTime"}
  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{

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    "type": "structure",
    "required": ["LicenseConsumptionToken"],
    "members": {
      "LicenseConsumptionToken": {"shape": "String"},
      "Beneficiary": {"shape": "String"}
    }
  },
  "CheckInLicenseResponse": {
    "type": "structure",
    "members": {
    }
  },
  "CheckoutBorrowLicenseRequest": {
    "type": "structure",
    "required": [
      "LicenseArn",
      "Entitlements",
      "DigitalSignatureMethod",
      "ClientToken"
    ],
    "members": {
      "LicenseArn": {"shape": "Arn"},
      "Entitlements": {"shape": "EntitlementDataList"},
      "DigitalSignatureMethod": {"shape": "DigitalSignatureMethod"},
      "NodeId": {"shape": "String"},
      "CheckoutMetadata": {"shape": "MetadataList"},
      "ClientToken": {"shape": "ClientToken"}
    }
  },
  "CheckoutBorrowLicenseResponse": {
    "type": "structure",
    "members": {
      "LicenseArn": {"shape": "Arn"},
      "LicenseConsumptionToken": {"shape": "String"},
      "EntitlementsAllowed": {"shape": "EntitlementDataList"},
      "NodeId": {"shape": "String"},
      "SignedToken": {"shape": "SignedToken"},
      "IssuedAt": {"shape": "ISO8601DateTime"},
      "Expiration": {"shape": "ISO8601DateTime"},
      "CheckoutMetadata": {"shape": "MetadataList"}
    }
  },
  "CheckoutLicenseRequest": {
    "type": "structure",
    "required": [
      "ProductSKU",
      "CheckoutType",

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    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
  }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
}

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    },
    "exception":true
  },
  "ConsumedLicenseSummary":{
    "type":"structure",
    "members":{
      "ResourceType":{"shape":"ResourceType"},
      "ConsumedLicenses":{"shape":"BoxLong"}
    }
  },
  "ConsumedLicenseSummaryList":{
    "type":"list",
    "member":{"shape":"ConsumedLicenseSummary"}
  },
  "ConsumptionConfiguration":{
    "type":"structure",
    "members":{
      "RenewType":{"shape":"RenewType"},
      "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
      "BorrowConfiguration":{"shape":"BorrowConfiguration"}
    }
  },
  "CreateGrantRequest":{
    "type":"structure",
    "required":[
      "ClientToken",
      "GrantName",
      "LicenseArn",
      "Principals",
      "HomeRegion",
      "AllowedOperations"
    ],
    "members":{
      "ClientToken":{"shape":"ClientToken"},
      "GrantName":{"shape":"String"},
      "LicenseArn":{"shape":"Arn"},
      "Principals":{"shape":"PrincipalArnList"},
      "HomeRegion":{"shape":"String"},
      "AllowedOperations":{"shape":"AllowedOperationList"}
    }
  },
  "CreateGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  }
}

```

```

},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"},
    "Status":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "SourceVersion":{"shape":"String"},
    "Options":{"shape":"Options"}
  }
},
"CreateGrantVersionResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "LicenseRules":{"shape":"StringList"},
    "Tags":{"shape":"TagList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ProductInformationList":{"shape":"ProductInformationList"}
  }
},
"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
}

```

```

    }
  },
  "CreateLicenseConversionTaskForResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "SourceLicenseContext",
      "DestinationLicenseContext"
    ],
    "members":{
      "ResourceArn":{"shape":"Arn"},
      "SourceLicenseContext":{"shape":"LicenseConversionContext"},
      "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
    }
  },
  "CreateLicenseConversionTaskForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
    }
  },
  "CreateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "ReportGeneratorName":{"shape":"ReportGeneratorName"},
      "Type":{"shape":"ReportTypeList"},
      "ReportContext":{"shape":"ReportContext"},
      "ReportFrequency":{"shape":"ReportFrequency"},
      "ClientToken":{"shape":"ClientRequestToken"},
      "Description":{"shape":"String"},
      "Tags":{"shape":"TagList"}
    }
  },
  "CreateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
      "LicenseManagerReportGeneratorArn":{"shape":"String"}
    }
  },
  "CreateLicenseRequest":{
    "type":"structure",

```

```

"required":[
  "LicenseName",
  "ProductName",
  "ProductSKU",
  "Issuer",
  "HomeRegion",
  "Validity",
  "Entitlements",
  "Beneficiary",
  "ConsumptionConfiguration",
  "ClientToken"
],
"members":{
  "LicenseName":{"shape":"String"},
  "ProductName":{"shape":"String"},
  "ProductSKU":{"shape":"String"},
  "Issuer":{"shape":"Issuer"},
  "HomeRegion":{"shape":"String"},
  "Validity":{"shape":"DatetimeRange"},
  "Entitlements":{"shape":"EntitlementList"},
  "Beneficiary":{"shape":"String"},
  "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
  "LicenseMetadata":{"shape":"MetadataList"},
  "ClientToken":{"shape":"ClientToken"}
}
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"

```

```

],
"members":{
  "LicenseArn":{"shape":"Arn"},
  "LicenseName":{"shape":"String"},
  "ProductName":{"shape":"String"},
  "Issuer":{"shape":"Issuer"},
  "HomeRegion":{"shape":"String"},
  "Validity":{"shape":"DatetimeRange"},
  "LicenseMetadata":{"shape":"MetadataList"},
  "Entitlements":{"shape":"EntitlementList"},
  "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
  "Status":{"shape":"LicenseStatus"},
  "ClientToken":{"shape":"ClientToken"},
  "SourceVersion":{"shape":"String"}
}
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{

```

```

"type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{"shape":"ISO8601DateTime"},
    "End":{"shape":"ISO8601DateTime"}
  }
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"}
  }
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{

```

```

    "type": "structure",
    "members": {
    }
  },
  "DeleteLicenseRequest": {
    "type": "structure",
    "required": [
      "LicenseArn",
      "SourceVersion"
    ],
    "members": {
      "LicenseArn": { "shape": "Arn" },
      "SourceVersion": { "shape": "String" }
    }
  },
  "DeleteLicenseResponse": {
    "type": "structure",
    "members": {
      "Status": { "shape": "LicenseDeletionStatus" },
      "DeletionDate": { "shape": "ISO8601DateTime" }
    }
  },
  "DeleteTokenRequest": {
    "type": "structure",
    "required": [ "TokenId" ],
    "members": {
      "TokenId": { "shape": "String" }
    }
  },
  "DeleteTokenResponse": {
    "type": "structure",
    "members": {
    }
  },
  "DigitalSignatureMethod": {
    "type": "string",
    "enum": [ "JWT_PS384" ]
  },
  "Entitlement": {
    "type": "structure",
    "required": [
      "Name",
      "Unit"
    ],
    "members": {
      "Name": { "shape": "String" },
      "Value": { "shape": "String" },

```

```

    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",

```



```

    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",

"Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",

```

```

    "Count/Second"
  ],
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "ConsumedValue":{"shape":"String"},
    "MaxCount":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "DryRun":{"shape":"Boolean"}
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Expiration":{"shape":"ISO8601DateTime"}
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{"shape":"FilterName"},

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```

    "Values":{"shape":"FilterValues"}
  }
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetGrantResponse":{
  "type":"structure",

```

```

    "members":{
      "Grant":{"shape":"Grant"}
    }
  },
  "GetLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{"shape":"String"}
    }
  },
  "GetLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationId":{"shape":"String"},
      "LicenseConfigurationArn":{"shape":"String"},
      "Name":{"shape":"String"},
      "Description":{"shape":"String"},
      "LicenseCountingType":{"shape":"LicenseCountingType"},
      "LicenseRules":{"shape":"StringList"},
      "LicenseCount":{"shape":"BoxLong"},
      "LicenseCountHardLimit":{"shape":"BoxBoolean"},
      "ConsumedLicenses":{"shape":"BoxLong"},
      "Status":{"shape":"String"},
      "OwnerAccountId":{"shape":"String"},
      "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
      "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
      "Tags":{"shape":"TagList"},
      "ProductInformationList":{"shape":"ProductInformationList"},
      "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
      "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
    }
  },
  "GetLicenseConversionTaskRequest":{
    "type":"structure",
    "required":["LicenseConversionTaskId"],
    "members":{
      "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
    }
  },
  "GetLicenseConversionTaskResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
      "ResourceArn":{"shape":"String"},
      "SourceLicenseContext":{"shape":"LicenseConversionContext"},
      "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
      "StatusMessage":{"shape":"String"},

```

```

    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"GetLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"GetLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "ReportGenerator":{"shape":"ReportGenerator"}
  }
},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",

```

```

    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "S3BucketArn":{"shape":"String"},
      "SnsTopicArn":{"shape":"String"},
      "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
      "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
      "LicenseManagerResourceShareArn":{"shape":"String"}
    }
  },
  "Grant":{
    "type":"structure",
    "required":[
      "GrantArn",
      "GrantName",
      "ParentArn",
      "LicenseArn",
      "GranteePrincipalArn",
      "HomeRegion",
      "GrantStatus",
      "Version",
      "GrantedOperations"
    ],
    "members":{
      "GrantArn":{"shape":"Arn"},
      "GrantName":{"shape":"String"},
      "ParentArn":{"shape":"Arn"},
      "LicenseArn":{"shape":"Arn"},
      "GranteePrincipalArn":{"shape":"Arn"},
      "HomeRegion":{"shape":"String"},
      "GrantStatus":{"shape":"GrantStatus"},
      "StatusReason":{"shape":"StatusReasonMessage"},
      "Version":{"shape":"String"},
      "GrantedOperations":{"shape":"AllowedOperationList"},
      "Options":{"shape":"Options"}
    }
  },
  "GrantList":{
    "type":"list",
    "member":{"shape":"Grant"}
  },
  "GrantStatus":{
    "type":"string",
    "enum":[
      "PENDING_WORKFLOW",

```

```

    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"},
    "ReceivedMetadata":{"shape":"ReceivedMetadata"}
  }
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2)[0-9]T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[-](?:2[0-3]|0[1-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,

```

```

    "synthetic":true
  },
  "InvalidResourceStateException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "InventoryFilter":{
    "type":"structure",
    "required":[
      "Name",
      "Condition"
    ],
    "members":{
      "Name":{"shape":"String"},
      "Condition":{"shape":"InventoryFilterCondition"},
      "Value":{"shape":"String"}
    }
  },
  "InventoryFilterCondition":{
    "type":"string",
    "enum":[
      "EQUALS",
      "NOT_EQUALS",
      "BEGINS_WITH",
      "CONTAINS"
    ]
  },
  "InventoryFilterList":{
    "type":"list",
    "member":{"shape":"InventoryFilter"}
  },
  "Issuer":{
    "type":"structure",
    "required":["Name"],
    "members":{
      "Name":{"shape":"String"},
      "SignKey":{"shape":"String"}
    }
  },
  "IssuerDetails":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "SignKey":{"shape":"String"},
      "KeyFingerprint":{"shape":"String"}
    }
  }

```



```

    }
  },
  "License":{
    "type":"structure",
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "LicenseName":{"shape":"String"},

      "ProductName":{"shape":"String"},
      "ProductSKU":{"shape":"String"},
      "Issuer":{"shape":"IssuerDetails"},
      "HomeRegion":{"shape":"String"},
      "Status":{"shape":"LicenseStatus"},
      "Validity":{"shape":"DatetimeRange"},
      "Beneficiary":{"shape":"String"},
      "Entitlements":{"shape":"EntitlementList"},
      "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
      "LicenseMetadata":{"shape":"MetadataList"},
      "CreateTime":{"shape":"ISO8601DateTime"},
      "Version":{"shape":"String"}
    }
  },
  "LicenseConfiguration":{
    "type":"structure",
    "members":{
      "LicenseConfigurationId":{"shape":"String"},
      "LicenseConfigurationArn":{"shape":"String"},
      "Name":{"shape":"String"},
      "Description":{"shape":"String"},
      "LicenseCountingType":{"shape":"LicenseCountingType"},
      "LicenseRules":{"shape":"StringList"},
      "LicenseCount":{"shape":"BoxLong"},
      "LicenseCountHardLimit":{"shape":"BoxBoolean"},
      "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
      "ConsumedLicenses":{"shape":"BoxLong"},
      "Status":{"shape":"String"},
      "OwnerAccountId":{"shape":"String"},
      "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
      "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
      "ProductInformationList":{"shape":"ProductInformationList"},
      "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
    }
  },
  "LicenseConfigurationAssociation":{
    "type":"structure",
    "members":{
      "ResourceArn":{"shape":"String"},
      "ResourceType":{"shape":"ResourceType"},

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    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},

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```

    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{"
  "type":"string",
  "max":50,
  "pattern":"^\\ct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{"
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{"
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{"
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{"
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{"
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{"
  "type":"structure",
  "members":{"
    "ResourceArn":{"shape":"String"},

```

```

    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
  }
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
},

```

```

    "exception":true
  },
  "ListAssociationsForLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListAssociationsForLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListDistributedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{"shape":"ArnList"},
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListDistributedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{"shape":"GrantList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse":{
    "type":"structure",
    "members":{
      "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
      "NextToken":{"shape":"String"}
    }
  }
}

```

```

    }
  },
  "ListLicenseConfigurationsRequest":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArns":{"shape":"StringList"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListLicenseConfigurationsResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurations":{"shape":"LicenseConfigurations"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseConversionTasksRequest":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListLicenseConversionTasksResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseManagerReportGeneratorsRequest":{
    "type":"structure",
    "members":{
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListLicenseManagerReportGeneratorsResponse":{
    "type":"structure",
    "members":{
      "ReportGenerators":{"shape":"ReportGeneratorList"},
      "NextToken":{"shape":"String"}
    }
  },

```

```

"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
}

```

```

},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
}

```



```

},
"ListReceivedLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{"shape":"ResourceInventoryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{"shape":"TagList"}
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{

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```

    "TokenIds":{"shape":"StringList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
    "NextToken":{"shape":"String"}
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
},

```

```

"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"Options":{
  "type":"structure",
  "members":{
    "ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
  }
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{"shape":"Boolean"}
  }
},
"PrincipalArnList":{
  "type":"list",
  "member":{"shape":"Arn"},
  "max":1,
  "min":1
},
"ProductInformation":{
  "type":"structure",
  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ]
}

```

```

    ],
    "members":{
      "ResourceType":{"shape":"String"},
      "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
    }
  },
  "ProductInformationFilter":{
    "type":"structure",
    "required":[
      "ProductInformationFilterName",
      "ProductInformationFilterComparator"
    ],
    "members":{
      "ProductInformationFilterName":{"shape":"String"},
      "ProductInformationFilterValue":{"shape":"StringList"},
      "ProductInformationFilterComparator":{"shape":"String"}
    }
  },
  "ProductInformationFilterList":{
    "type":"list",
    "member":{"shape":"ProductInformationFilter"}
  },
  "ProductInformationList":{
    "type":"list",
    "member":{"shape":"ProductInformation"}
  },
  "ProvisionalConfiguration":{
    "type":"structure",
    "required":["MaxTimeToLiveInMinutes"],
    "members":{
      "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
    }
  },
  "RateLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ReceivedMetadata":{
    "type":"structure",
    "members":{
      "ReceivedStatus":{"shape":"ReceivedStatus"},
      "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
      "AllowedOperations":{"shape":"AllowedOperationList"}
    }
  },

```

```

"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{

```

```

    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[

```

```

    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{

```

```

    "type":"structure",
    "members":{
        "bucket":{"shape":"String"},
        "keyPrefix":{"shape":"String"}
    }
},
"ServerInternalException":{
    "type":"structure",
    "members":{
        "Message":{"shape":"Message"}
    },
    "exception":true,
    "fault":true
},
"SignedToken":{
    "type":"string",
    "min":4096
},
"StatusReasonMessage":{
    "type":"string",
    "max":400,
    "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
    "type":"list",
    "member":{"shape":"String"}
},
"Tag":{
    "type":"structure",
    "members":{
        "Key":{"shape":"String"},
        "Value":{"shape":"String"}
    }
},
"TagKeyList":{
    "type":"list",
    "member":{"shape":"String"}
},
"TagList":{
    "type":"list",
    "member":{"shape":"Tag"}
},
"TagResourceRequest":{
    "type":"structure",
    "required":[
        "ResourceArn",

```



```

    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",

```

```

    "TagKeys"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},

```

```

    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"},
    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
  }
},
"UpdateLicenseSpecificationsForResourceResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UpdateServiceSettingsRequest":{"
  "type":"structure",
  "members":{"
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
  }
},
"UpdateServiceSettingsResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UsageOperation":{"
  "type":"string",
  "max":50
},
"ValidationException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  },
  "exception":true
}

```

```

}
}
{
  "testCases": [
    {
      "documentation": "For region ap-south-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.ap-south-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "ap-south-1",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region ap-south-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "ap-south-1",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-south-1 with FIPS disabled
and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.ap-south-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "ap-south-1",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {

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        "url": "https://license-manager-user-subscriptions.ap-south-1.amazonaws.com"
    },
    "params": {
        "UseFIPS": false,
        "Region": "ap-south-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-south-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.eu-south-1.api.aws"
        }
    },
    "params": {
        "UseFIPS": true,
        "Region": "eu-south-1",
        "UseDualStack": true
    }
},
{
    "documentation": "For region eu-south-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.eu-south-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "Region": "eu-south-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.eu-south-1.api.aws"
        }
    },
    "params": {
        "UseFIPS": false,
        "Region": "eu-south-1",
        "UseDualStack": true
    }
}

```

```

},
{
  "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.eu-south-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "Region": "eu-south-1",
    "UseDualStack": false
  }
},
{
  "documentation": "For region ca-central-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.ca-central-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": true,
    "Region": "ca-central-1",

    "UseDualStack": true
  }
},
{
  "documentation": "For region ca-central-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.ca-central-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "Region": "ca-central-1",
    "UseDualStack": false
  }
},
{
  "documentation": "For region ca-central-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.ca-central-1.api.aws"
    }
  },
},

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```

    "params": {
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      "Region": "ca-central-1",
      "UseDualStack": true
    }
  },
  {
    "documentation":
    "For region ca-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.ca-central-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "Region": "ca-central-1",
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region eu-central-1 with FIPS enabled and DualStack enabled",
    "expect": {
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        "url": "https://license-manager-user-subscriptions-fips.eu-central-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": true,
      "Region": "eu-central-1",
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region eu-central-1 with FIPS enabled and DualStack disabled",
    "expect":
  {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.eu-central-1.amazonaws.com"
    }
  },
  {
    "params": {
      "UseFIPS": true,
      "Region": "eu-central-1",
      "UseDualStack": false
    }
  },
  {

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    "documentation": "For region eu-central-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.eu-central-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": false,
      "Region": "eu-central-1",
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.eu-central-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "Region": "eu-central-1",
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-west-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.us-west-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": true,
      "Region": "us-west-1",
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.us-west-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,

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```

        "Region": "us-west-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-west-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-west-1.api.aws"
        }
    },
    "params": {
        "UseFIPS": false,
        "Region": "us-west-1",
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-west-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "Region": "us-west-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-west-2 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-west-2.api.aws"
        }
    },
    "params": {
        "UseFIPS": true,
        "Region": "us-west-2",
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-west-2.amazonaws.com"
        }
    }
}

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and DualStack enabled",
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    "UseDualStack": true
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    "UseDualStack": false
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    "Region": "af-south-1",
    "UseDualStack": false
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  "params": {

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      "UseDualStack": true
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      "UseDualStack": true
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    "params": {
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            }
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            "Region": "ap-northeast-1",
            "UseDualStack": true
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            }
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            "UseDualStack": true
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        }
    }
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  "params": {
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    "Region": "me-south-1",
    "UseDualStack": true
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    "UseDualStack": false
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  },
  "params": {
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    "UseDualStack": true
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    "UseDualStack": false
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region sa-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
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  "params": {
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    "UseDualStack": true
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    "Region": "sa-east-1",
    "UseDualStack": false
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  "params": {

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        "UseDualStack": false
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    }
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        "UseDualStack": true
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        "UseDualStack": true
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            "UseDualStack": true
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enabled and DualStack disabled",
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      "Region": "us-east-2",
      "UseDualStack": false
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    }
  },
  "params": {
    "UseFIPS": false,
    "Region": "us-east-1",
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "UseFIPS": true,
    "Region": "us-east-1",
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{

```

```

    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "UseFIPS": false,
      "Region": "us-east-1",
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  "version": "1.0"
}
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10"
  },
  "operations": {
    "GetServiceSettings": {
      "name": "GetServiceSettings",
      "http": {
        "method": "POST",
        "requestUri": "/subscription/GetServiceSettings",
        "responseCode": 200
      },
      "input": { "shape": "GetServiceSettingsRequest" },
      "output": { "shape": "GetServiceSettingsResponse" },
      "errors": [
        { "shape": "InternalServerErrorException" },
        { "shape": "ThrottlingException" },
        { "shape": "ValidationException" }
      ],
      "idempotent": true
    },
    "ListLinuxSubscriptionInstances": {
      "name": "ListLinuxSubscriptionInstances",

```

```

    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListLinuxSubscriptionInstances",
      "responseCode":200
    },
    "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
    "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
    "errors":[
      {"shape":"InternalServerErrorException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  },
  "ListLinuxSubscriptions":{
    "name":"ListLinuxSubscriptions",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListLinuxSubscriptions",
      "responseCode":200
    },
    "input":{"shape":"ListLinuxSubscriptionsRequest"},
    "output":{"shape":"ListLinuxSubscriptionsResponse"},
    "errors":[
      {"shape":"InternalServerErrorException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  },
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/UpdateServiceSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
      {"shape":"InternalServerErrorException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  }
},

```

```

"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Operator":{"shape":"Operator"},
      "Values":{"shape":"StringList"}
    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
    }
  },
  "Instance":{
    "type":"structure",
    "members":{
      "AccountID":{"shape":"String"},
      "AmiId":{"shape":"String"},
      "InstanceID":{"shape":"String"},
      "InstanceType":{"shape":"String"},
      "LastUpdatedTime":{"shape":"String"},

```

```

    "ProductCode":{"shape":"ProductCodeList"},
    "Region":{"shape":"String"},
    "Status":{"shape":"String"},
    "SubscriptionName":{"shape":"String"},
    "UsageOperation":{"shape":"String"}
  }
},
"InstanceList":{
  "type":"list",
  "member":{"shape":"Instance"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"LinuxSubscriptionsDiscovery":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{"shape":"OrganizationIntegration"},
    "SourceRegions":{"shape":"StringList"}
  }
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{

```

```

    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionInstancesResponse":{
    "type":"structure",
    "members":{
      "Instances":{"shape":"InstanceList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLinuxSubscriptionsRequest":{
    "type":"structure",
    "members":{
      "Filters":{"shape":"FilterList"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "Subscriptions":{"shape":"SubscriptionList"}
    }
  },
  "Operator":{
    "type":"string",
    "enum":[
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max":20,
    "min":1
  },
  "OrganizationIntegration":{
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },

```



```

"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",
    "Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{"shape":"BoxLong"},
    "Name":{"shape":"String"},
    "Type":{"shape":"String"}
  }
},
"SubscriptionList":{
  "type":"list",
  "member":{"shape":"Subscription"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  }
},
"exception":true

```

```

    },
    "UpdateServiceSettingsRequest":{
      "type":"structure",
      "required":[
        "LinuxSubscriptionsDiscovery",
        "LinuxSubscriptionsDiscoverySettings"
      ],
      "members":{
        "AllowUpdate":{"shape":"Boolean"},
        "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
        "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
      }
    },
    "UpdateServiceSettingsResponse":{
      "type":"structure",
      "members":{
        "HomeRegions":{"shape":"StringList"},
        "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
        "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
        "Status":{"shape":"Status"},
        "StatusMessage":{"shape":"StringMap"}
      }
    },
    "ValidationException":{
      "type":"structure",
      "members":{
        "message":{"shape":"String"}
      },
      "exception":true
    }
  }
}
{
  "version": "2.0",
  "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
  "operations": {
    "AcceptGrant": "<p>Accepts the specified grant.</p>",
    "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
    "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
    "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",
    "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in

```

License Manager in the *License Manager User Guide*.

"CreateLicense": "Creates a license.

"CreateLicenseConfiguration": "Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.

"CreateLicenseConversionTaskForResource":

"Creates a new license conversion task.

"CreateLicenseManagerReportGenerator": "Creates a report generator.

"CreateLicenseVersion": "Creates a new version of the specified license.

"CreateToken": "Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.

"DeleteGrant": "Deletes the specified grant.

"DeleteLicense": "Deletes the specified license.

"DeleteLicenseConfiguration": "Deletes the specified license configuration. You cannot delete a license configuration that is in use.

"DeleteLicenseManagerReportGenerator": "Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.

"DeleteToken": "Deletes the specified token. Must be called in the license home Region.

"ExtendLicenseConsumption": "Extends the expiration date for license consumption.

"GetAccessToken": "Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.

"GetGrant": "Gets detailed information about the specified grant.

"GetLicense": "Gets detailed information about the specified license.

"GetLicenseConfiguration": "Gets detailed information about the specified license configuration.

"GetLicenseConversionTask": "Gets information about the specified license type conversion task.

"GetLicenseManagerReportGenerator": "Gets information about the specified report generator.

"GetLicenseUsage": "Gets detailed information about the usage of the specified license.

"GetServiceSettings":

"Gets the License Manager settings for the current Region.

"ListAssociationsForLicenseConfiguration": "Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).

"ListDistributedGrants": "Lists the grants distributed for the specified license.

"ListFailuresForLicenseConfigurationOperations": "Lists the license configuration operations that failed.

"ListLicenseConfigurations": "Lists the license configurations for your account.

"ListLicenseConversionTasks": "Lists the license type conversion tasks for your account.

"ListLicenseManagerReportGenerators": "Lists the report generators for your account.

"ListLicenseSpecificationsForResource": "Describes the license configurations for the specified resource.

"ListLicenseVersions": "Lists all versions of the specified license.

"ListLicenses": "Lists the licenses for your account.

"ListReceivedGrants": "Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this

member account belongs.</p>",

"ListReceivedGrantsForOrganization": "<p>Lists the grants received for all accounts in the organization.</p>",

"ListReceivedLicenses": "<p>Lists received licenses.</p>",

"ListReceivedLicensesForOrganization": "<p>Lists the licenses received for all accounts in the organization.</p>",

"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",

"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",

"ListTokens": "<p>Lists your tokens.</p>",

"ListUsageForLicenseConfiguration":

"<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",

"RejectGrant": "<p>Rejects the specified grant.</p>",

"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",

"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",

"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",

"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",

"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>",

"UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"

},

"shapes": {

"AcceptGrantRequest": {

"base": null,

"refs": {

}

},

"AcceptGrantResponse": {

"base": null,

"refs": {

}

},

"AccessDeniedException": {

"base": "<p>Access to resource denied.</p>",

"refs": {

}

},

"ActivationOverrideBehavior": {

"base": null,

"refs": {

"Options\$ActivationOverrideBehavior": "<p>An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>

for the `Status` parameter.

- As a license administrator, you can optionally specify an `ActivationOverrideBehavior` when activating a grant.
- As a grantor, you can optionally specify an `ActivationOverrideBehavior` when you activate a grant for a grantee account in your organization.
- As a grantee, if the grantor creating the distributed grant doesn't specify an `ActivationOverrideBehavior`, you can optionally specify one when you are activating the grant.

DISTRIBUTED_GRANTS_ONLY	Use this value to activate a grant without replacing any member accounts active grants for the same product.
ALL_GRANTS_PERMITTED_BY_ISSUER	Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.

```

    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
      "CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
      "Grant$GrantedOperations": "<p>Granted operations.</p>",
      "ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
    }
  },
  "Arn": {
    "base": null,
    "refs": {
      "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
      "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
      "ArnList$member": null,
      "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>",
      "CheckoutBorrowLicenseResponse$LicenseArn":
        "<p>Amazon Resource Name (ARN) of the license.</p>",
      "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",
      "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
      "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
      "CreateLicenseConversionTaskForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
      "CreateLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "CreateLicenseVersionRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "CreateLicenseVersionResponse$LicenseArn": "<p>License ARN.</p>",
      "CreateTokenRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped

```

to the aud claim of the JWT token.</p>",

"DeleteGrantRequest\$GrantArn":

<p>Amazon Resource Name (ARN) of the grant.</p>",

"DeleteGrantResponse\$GrantArn": "<p>Grant ARN.</p>",

"DeleteLicenseRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"GetGrantRequest\$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"GetLicenseRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"GetLicenseUsageRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"Grant\$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"Grant\$ParentArn": "<p>Parent ARN.</p>",

"Grant\$LicenseArn": "<p>License ARN.</p>",

"Grant\$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",

"GrantedLicense\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"License\$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",

"ListLicenseVersionsRequest\$LicenseArn": "<p>Amazon Resource Name (ARN) of

the license.</p>",

"ListReceivedGrantsForOrganizationRequest\$LicenseArn": "<p>The Amazon Resource Name (ARN) of the

received license.</p>",

"PrincipalArnList\$member": null,

"RejectGrantRequest\$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"RejectGrantResponse\$GrantArn": "<p>Grant ARN.</p>"

}

},

"ArnList": {

"base": null,

"refs": {

"CreateTokenRequest\$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the

token. License Manager does not check whether the roles are in use.</p>",

"ListDistributedGrantsRequest\$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",

"ListLicensesRequest\$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

"ListReceivedGrantsRequest\$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",

"ListReceivedLicensesRequest\$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

"ReportContext\$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration

that this generator reports on.</p>",

"TokenData\$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"

}

},

"AuthorizationException": {

"base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the

IAM policy associated with this account.</p>",

"refs": {

}

},

"AutomatedDiscoveryInformation": {

"base": "<p>Describes automated discovery.</p>",

"refs": {

"GetLicenseConfigurationResponse\$AutomatedDiscoveryInformation": "<p>Automated discovery

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information.</p>",
  "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
},
},
"Boolean": {
  "base": null,
  "refs": {
    "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the
action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>",
    "OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
  }
},
"BorrowConfiguration": {
  "base": "<p>Details about a borrow configuration.</p>",
  "refs": {
    "ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
  }
},
"BoxBoolean": {
  "base": null,
  "refs": {
    "BorrowConfiguration$AllowEarlyCheckIn": "<p>Indicates whether early check-ins are allowed.</p>",
    "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Indicates whether hard or soft license
enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",
    "CreateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
    "Entitlement$Overage": "<p>Indicates
whether overages are allowed.</p>",
    "Entitlement$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",
    "GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a
hard limit.</p>",
    "GetLicenseConfigurationResponse$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
    "GetServiceSettingsResponse$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account
discovery is enabled.</p>",
    "LicenseConfiguration$LicenseCountHardLimit": "<p>Number of available licenses as a hard limit.</p>",
    "LicenseConfiguration$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software
is uninstalled.</p>",
    "UpdateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>New hard limit of the number of
available licenses.</p>",
    "UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates
a resource when software is uninstalled.</p>",
    "UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": "<p>Activates cross-account
discovery.</p>"
  }
},
"BoxInteger": {

```

```

    "base": null,
    "refs": {
      "BorrowConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in
minutes.</p>",
      "ListAssociationsForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in
a single call.</p>",
      "ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": "<p>Maximum number of results to
return in a single call.</p>",
      "ListLicenseConfigurationsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
      "ListLicenseConversionTasksRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
      "ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",

      "ListResourceInventoryRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListUsageForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ProvisionalConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration,
in minutes.</p>"
    }
  },
  "BoxLong": {
    "base": null,
    "refs": {
      "ConsumedLicenseSummary$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
      "CreateLicenseConfigurationRequest$LicenseCount": "<p>Number of licenses managed by the license
configuration.</p>",
      "GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
      "GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
      "LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
      "LicenseConfiguration$ConsumedLicenses":
        "<p>Number of licenses consumed. </p>",
      "LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
      "ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
      "UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"
    }
  },
  "CheckInLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckInLicenseResponse": {
    "base": null,
    "refs": {
    }
  }
}

```



```

},
"CheckoutBorrowLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutType": {
  "base": null,
  "refs": {
    "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
    "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
  }
},
"ClientRequestToken": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
},
"ClientToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
}

```

```

    "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
    idempotency of the request.</p>",
    "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
    the idempotency of the request.</p>",
    "CreateTokenRequest$ClientToken": "<p>Idempotency token, valid for 10 minutes.</p>"
  }
},
"ConflictException": {
  "base": "<p>There was a conflict processing the request. Try your request again.</p>",
  "refs": {
  }
},
"ConsumedLicenseSummary": {
  "base": "<p>Details about license consumption.</p>",
  "refs": {
    "ConsumedLicenseSummaryList$member": null
  }
},
"ConsumedLicenseSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses
    consumed by resources.</p>",
    "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
    resources.</p>"
  }
},
"ConsumptionConfiguration": {
  "base": "<p>Details about a consumption configuration.</p>",
  "refs": {
    "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
    Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
    configuration for workloads with offline usage.</p>",
    "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the
    license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
    configuration for workloads with offline usage.</p>",
    "GrantedLicense$ConsumptionConfiguration":
    "<p>Configuration for consumption of the license.</p>",
    "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
  }
},
"CreateGrantRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantResponse": {
  "base": null,

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    "refs": {
    }
  },
  "CreateGrantVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConversionTaskForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConversionTaskForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseRequest": {
    "base": null,
    "refs": {
    }
  }

```

```

},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateTokenRequest": {
  "base": null,
  "refs": {
  }
},
"CreateTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DateTime": {
  "base": null,
  "refs": {
    "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
    "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was
started .</p>",
    "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license
type conversion.</p>",
    "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was
completed.</p>",
    "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
with the resource.</p>",
    "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially
associated with the resource.</p>",
    "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
    "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource
was changed.</p>",
    "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
    "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
  }
},
"DatetimeRange": {

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    "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
    "refs": {
      "CreateLicenseRequest$Validity": "<p>Date
and time range during which the license is valid, in ISO8601-UTC format.</p>",
      "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
      "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
      "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    }
  },
  "DeleteGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseResponse": {
    "base": null,

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    "refs": {
    }
  },
  "DeleteTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DigitalSignatureMethod": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS) algorithm PS384. For more information, see <a
href='\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
    }
  },
  "Entitlement": {
    "base": "<p>Describes a resource entitled for use with a license.</p>",
    "refs": {
      "EntitlementList$member": null
    }
  },
  "EntitlementData": {
    "base": "<p>Data associated with an entitlement resource.</p>",

    "refs": {
      "EntitlementDataList$member": null
    }
  },
  "EntitlementDataList": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not
supported.</p>",
      "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
      "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
    }
  },
  "EntitlementDataUnit": {
    "base": null,
    "refs": {
      "EntitlementData$Unit": "<p>Entitlement data unit.</p>",

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    "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
  }
},
"EntitlementList": {
  "base": null,
  "refs": {
    "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
    "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
    "License$Entitlements": "<p>License entitlements.</p>"
  }
},
"EntitlementNotAllowedException": {
  "base": "<p>The entitlement is not allowed.</p>",
  "refs": {
  }
},
"EntitlementUnit": {
  "base": null,
  "refs": {
    "Entitlement$Unit": "<p>Entitlement unit.</p>"
  }
},
"EntitlementUsage": {
  "base": "<p>Usage associated with an entitlement resource.</p>",
  "refs": {
    "EntitlementUsageList$member": null
  }
},
"EntitlementUsageList": {
  "base": null,
  "refs": {
    "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
  }
},
"ExtendLicenseConsumptionRequest": {
  "base": null,
  "refs": {
  }
},
"ExtendLicenseConsumptionResponse": {
  "base": null,
  "refs": {
  }
},
"FailedDependencyException": {
  "base": "<p>A dependency required to run the API is missing.</p>",

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    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation.
Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
    "refs": {
      "FilterList$member": null,
      "Filters$member": null
    }
  },
  "FilterLimitExceededException": {
    "base": "<p>The request uses too many filters or too many filter values.</p>",
    "refs": {
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p>
</li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li>
<li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
      "ListLicenseManagerReportGeneratorsRequest$Filters":
        "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>",
      "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul>
<li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>",
      "ListReceivedGrantsForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code>
</p> </li> </ul>",
      "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p>
<ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li>
<p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code>
</p> </li> <li> <p> <code>GranterAccountId</code> </p> </li> </ul>",
      "ListReceivedLicensesForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters
are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p>
</li> </ul>",
      "ListReceivedLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Status</code> </p> </li>
<li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>IssuerName</code> </p> </li> <li> <p>
<code>Beneficiary</code> </p> </li> </ul>",
      "ListTokensRequest$Filters": "<p>Filters to scope the results. The following filter is supported:</p> <ul> <li>
<p> <code>LicenseArns</code> </p> </li> </ul>"
    }
  },
  "FilterName": {

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"base": null,
"refs": {
  "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
}
},
"FilterValue": {
  "base": null,
  "refs": {
    "FilterValues$member": null
  }
},
"FilterValues": {
  "base": null,
  "refs": {
    "Filter$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
  }
},
"Filters": {
  "base": null,
  "refs": {
    "ListLicenseConfigurationsRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>",
    "ListLicenseConversionTasksRequest$Filters": "<p> Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. </p>",
    "ListUsageForLicenseConfigurationRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
  }
},
"GetAccessTokenRequest": {
  "base": null,
  "refs": {
  }
},

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"GetAccessTokenResponse": {
  "base": null,
  "refs": {
  }
},
"GetGrantRequest": {
  "base": null,
  "refs": {
  }
},
"GetGrantResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConversionTaskRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConversionTaskResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseManagerReportGeneratorResponse": {
  "base":
null,
  "refs": {
  }
},
"GetLicenseRequest": {
  "base": null,

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    "refs": {
    }
  },
  "GetLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Grant": {
    "base": "<p>Describes a grant.</p>",
    "refs": {
      "GetGrantResponse$Grant": "<p>Grant details.</p>",
      "GrantList$member": null
    }
  },
  "GrantList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
      "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
      "ListReceivedGrantsResponse$Grants":
"<p>Received grant details.</p>"
    }
  },
  "GrantStatus": {
    "base": null,
    "refs": {

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"AcceptGrantResponse$Status": "<p>Grant status.</p>",
"CreateGrantResponse$Status": "<p>Grant status.</p>",
"CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
"CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
"DeleteGrantResponse$Status": "<p>Grant status.</p>",
"Grant$GrantStatus": "<p>Grant status.</p>",
"RejectGrantResponse$Status": "<p>Grant status.</p>"
}
},
"GrantedLicense": {
  "base": "<p>Describes a license that is granted to a grantee.</p>",
  "refs": {
    "GrantedLicenseList$member": null
  }
},
"GrantedLicenseList": {
  "base": null,
  "refs": {
    "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has
received.</p>",
    "ListReceivedLicensesResponse$Licenses": "<p>Received license
details.</p>"
  }
},
"ISO8601DateTime": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is
issued.</p>",
    "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout
expires.</p>",
    "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
    "DatetimeRange$Begin": "<p>Start of the time range.</p>",
    "DatetimeRange$End": "<p>End of the time range.</p>",
    "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
    "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption
expires.</p>",
    "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
    "License$CreateTime": "<p>License
creation time.</p>",
    "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
  }
},
"Integer": {
  "base": null,
  "refs": {
    "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The

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default is 365 days.</p>",

"ReportFrequency\$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"

}

},

"InvalidParameterValueException": {

"base": "<p>One or more parameter values are not valid.</p>",

"refs": {

}

},

"InvalidResourceStateException": {

"base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",

"refs": {

}

},

"InventoryFilter": {

"base": "<p>An inventory filter.</p>",

"refs": {

"InventoryFilterList\$member": null

}

},

"InventoryFilterCondition": {

"base": null,

"refs": {

"InventoryFilter\$Condition": "<p>Condition of the filter.</p>"

}

},

"InventoryFilterList": {

"base": null,

"refs": {

"ListResourceInventoryRequest\$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> "

}

},

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"Issuer": {
  "base": "<p>Details about the issuer of a license.</p>",
  "refs": {
    "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
    "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
  }
},
"IssuerDetails": {
  "base": "<p>Details associated with the issuer of a license.</p>",
  "refs": {
    "GrantedLicense$Issuer": "<p>Granted
license issuer.</p>",
    "License$Issuer": "<p>License issuer.</p>"
  }
},
"License": {
  "base": "<p>Software license that is managed in License Manager.</p>",
  "refs": {
    "GetLicenseResponse$License": "<p>License details.</p>",
    "LicenseList$member": null
  }
},
"LicenseConfiguration": {
  "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and
enforced by License Manager. Components include specifications for the license type (licensing by instance, socket,
CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity
(how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
  "refs": {
    "LicenseConfigurations$member": null
  }
},
"LicenseConfigurationAssociation": {
  "base": "<p>Describes an association with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationAssociations$member": null
  }
},
"LicenseConfigurationAssociations": {
  "base": null,
  "refs": {
    "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information
about the associations for the license configuration.</p>"
  }
},
"LicenseConfigurationStatus": {
  "base": null,
  "refs": {
    "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license

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configuration.</p>"
    }
  },
  "LicenseConfigurationUsage": {
    "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationUsageList$member": null
    }
  },
  "LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
      "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the
license configurations.</p>"
    }
  },
  "LicenseConfigurations": {
    "base": null,
    "refs": {
      "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license
configurations.</p>"
    }
  },
  "LicenseConversionContext": {
    "base": "<p>Information about a license type conversion task.</p>",
    "refs": {
      "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies
the license type you are converting from. For the structure of the source license, see <a
href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
      "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that
identifies the license type you are converting to. For the structure of the destination license, see <a
href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert
a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
      "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type
converted from.</p>",
      "GetLicenseConversionTaskResponse$DestinationLicenseContext": "<p>Information about the license type
converted to.</p>",
      "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
converted from.</p>",
      "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion
task converted to.</p>"
    }
  },
  "LicenseConversionTask": {
    "base": "<p>Information about a license type conversion task.</p>",

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"refs": {
  "LicenseConversionTasks$member": null
},
"LicenseConversionTaskId": {
  "base": null,
  "refs": {
    "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
    "<p>The ID of the created license type conversion task.</p>",
    "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to
    retrieve information on.</p>",
    "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion
    task.</p>",
    "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
  }
},
"LicenseConversionTaskStatus": {
  "base": null,
  "refs": {
    "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",
    "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
  }
},
"LicenseConversionTasks": {
  "base": null,
  "refs": {
    "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license
    configuration tasks for your account.</p>"
  }
},
"LicenseCountingType": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
    inventory.</p>",
    "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
    counted.</p>",
    "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>"
  }
},
"LicenseDeletionStatus": {
  "base": null,
  "refs": {
    "DeleteLicenseResponse$Status": "<p>License status.</p>"
  }
},
"LicenseList": {

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"base": null,
"refs": {
  "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
  "ListLicensesResponse$Licenses": "<p>License details.</p>"
}
},
"LicenseOperationFailure": {
  "base": "<p>Describes the failure of a license operation.</p>",
  "refs": {
    "LicenseOperationFailureList$member": null
  }
},
"LicenseOperationFailureList": {
  "base":
null,
  "refs": {
    "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
  }
},
"LicenseSpecification": {
  "base": "<p>Details for associating a license configuration with a resource.</p>",
  "refs": {
    "LicenseSpecifications$member": null
  }
},
"LicenseSpecifications": {
  "base": null,
  "refs": {
    "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
  }
},
"LicenseStatus": {
  "base": null,
  "refs": {
    "CreateLicenseResponse$Status": "<p>License status.</p>",
    "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
    "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
    "GrantedLicense$Status": "<p>Granted license status.</p>",
    "License$Status": "<p>License status.</p>"
  }
},
"LicenseUsage": {

```

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"base": "<p>Describes the entitlement usage associated with a license.</p>",
"refs": {
  "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
}
},
"LicenseUsageException": {
  "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"ListDistributedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListDistributedGrantsResponse":
{
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConfigurationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConfigurationsResponse": {
  "base": null,

```

```

    "refs": {
    }
  },
  "ListLicenseConversionTasksRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConversionTasksResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseManagerReportGeneratorsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseManagerReportGeneratorsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseSpecificationsForResourceResponse":
{
  "base": null,
  "refs": {
  }
},
  "ListLicenseVersionsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseVersionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicensesRequest": {
    "base": null,
    "refs": {
    }
  }

```

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},
"ListLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesRequest":
{
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {

```

```

    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long":
{
  "base": null,

```

```

"refs": {
  "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
},
},
"ManagedResourceSummary": {
  "base": "<p>Summary information about a managed resource.</p>",
  "refs": {
    "ManagedResourceSummaryList$member": null
  }
},
"ManagedResourceSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed
resources.</p>",
    "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
  }
},
"MaxSize100": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
    "ListLicenseVersionsRequest$MaxResults": "<p>Maximum
number of results to return in a single call.</p>",
    "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
    "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
    "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
  }
},
"MaxSize3StringList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped to the amr claim of the JWT token.</p>",

    "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT
token.</p>",
    "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
  }
},
"Message": {

```

```

"base": null,
"refs": {
  "AccessDeniedException$Message": null,
  "AuthorizationException$Message": null,
  "ConflictException$Message": null,
  "EntitlementNotAllowedException$Message": null,
  "FailedDependencyException$Message": null,
  "FilterLimitExceededException$Message": null,
  "InvalidParameterValueException$Message": null,
  "InvalidResourceStateException$Message": null,
  "LicenseUsageException$Message": null,
  "NoEntitlementsAllowedException$Message": null,
  "RateLimitExceededException$Message": null,
  "RedirectException$Message": null,
  "ResourceLimitExceededException$Message": null,
  "ResourceNotFoundException$Message": null,
  "ServerInternalException$Message":
null,
  "UnsupportedDigitalSignatureMethodException$Message": null,
  "ValidationException$Message": null
}
},
"Metadata": {
  "base": "<p>Describes key/value pairs.</p>",
  "refs": {
    "MetadataList$member": null
  }
},
"MetadataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
    "License$LicenseMetadata": "<p>License metadata.</p>",
    "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
  }
},
"NoEntitlementsAllowedException": {
  "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
  "refs": {
  }
},
"Options": {
  "base": "<p>The options you can specify when you create a new version of a grant, such as activation override

```

behavior. For more information, see <https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html> in the *License Manager User Guide*.

```
"refs": {
  "CreateGrantVersionRequest$Options": "<p>The options specified for the grant.</p>",
  "Grant$Options": "<p>The options specified for the grant.</p>"
},
"OrganizationConfiguration": {
  "base": "<p>Configuration information for Organizations.</p>",
  "refs": {
    "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>",
    "UpdateServiceSettingsRequest$OrganizationConfiguration":
      "<p>Enables integration with Organizations for cross-account discovery.</p>"
  }
},
"PrincipalArnList": {
  "base": null,
  "refs": {
    "CreateGrantRequest$Principals": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account specified.</p> </li> <li> <p>An organizational unit (OU), which includes all accounts in the OU.</p> </li> <li> <p>An organization, which will include all accounts across your organization.</p> </li> </ul>"
  }
},
"ProductInformation": {
  "base": "<p>Describes product information for a license configuration.</p>",
  "refs": {
    "ProductInformationList$member": null
  }
},
"ProductInformationFilter": {
  "base": "<p>Describes product information filters.</p>",
  "refs": {
    "ProductInformationFilterList$member":
      null
  }
},
"ProductInformationFilterList": {
  "base": null,
  "refs": {
    "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a ProductInformationFilterComparator which is a logical operator, a ProductInformationFilterName which specifies the type of filter being declared, and a ProductInformationFilterValue that specifies the value to filter on. </p> <p>Accepted values for ProductInformationFilterName are listed here along with descriptions and valid options for
```


`ProductInformationFilterComparator`. The following filters and are supported when the resource type is `SSM_MANAGED`:

- `Application Name` - The name of the application. Logical operator is `EQUALS`.
- `Application Publisher` - The publisher of the application. Logical operator is `EQUALS`.
- `Application Version` - The version of the application. Logical operator is `EQUALS`.
- `Platform Name` - The name of the platform. Logical operator is `EQUALS`.
- `Platform Type` - The platform type. Logical operator is `EQUALS`.
- `Tag:key` - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag:` following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key.
- `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.
- `License Included` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

```

    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
        "<p>Product information.</p>",
      "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
      "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
      "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
    }
  },
  "ProvisionalConfiguration": {
    "base": "<p>Details about a provisional configuration.</p>",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
    }
  },
  "RateLimitExceededException": {
    "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": "<p>Metadata associated with received licenses and grants.</p>",

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"refs": {
  "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
}
},
"ReceivedStatus": {
  "base": null,
  "refs": {
    "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
  }
},
"RedirectException": {
  "base": "<p>This is not the correct Region for the resource. Try again.</p>",
  "refs": {
  }
},
"RejectGrantRequest": {
  "base": null,
  "refs": {
  }
},
"RejectGrantResponse": {
  "base": null,
  "refs": {
  }
},
"RenewType": {
  "base": null,
  "refs": {
    "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
  }
},
"ReportContext": {
  "base": "<p>Details of the license configuration that this generator reports on.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
    "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportContext":
"<p>The report context.</p>"
  }
},
"ReportFrequency": {
  "base": "<p>Details about how frequently reports are generated.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
    "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are

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generated.</p>"
    }
  },
  "ReportFrequencyType": {
    "base": null,
    "refs": {
      "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or
monthly.</p>"
    }
  },
  "ReportGenerator": {
    "base": "<p>Describe the details of a report generator.</p>",
    "refs": {
      "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
      "<p>A report generator that creates periodic reports about your license configurations.</p>",
      "ReportGeneratorList$member": null
    }
  },
  "ReportGeneratorList": {
    "base": null,
    "refs": {
      "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
    }
  },
  "ReportGeneratorName": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
    }
  },
  "ReportType": {
    "base": null,
    "refs": {
      "ReportTypeList$member": null
    }
  },
  "ReportTypeList": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
be generated:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> </li> </ul>",

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    "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
  }
},
"ResourceInventory": {
  "base": "<p>Details about a resource.</p>",
  "refs": {
    "ResourceInventoryList$member": null
  }
},
"ResourceInventoryList": {
  "base": null,
  "refs": {
    "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
  }
},
"ResourceLimitExceededException": {
  "base": "<p>Your resource limits have been exceeded.</p>",
  "refs": {
  }
},
"ResourceNotFoundException": {
  "base": "<p>The resource cannot be found.</p>",
  "refs": {
  }
},
"ResourceType": {
  "base": null,
  "refs": {
    "ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",
    "LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
    "LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
    "LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
    "ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
    "ResourceInventory$ResourceType": "<p>Type of resource.</p>"
  }
},
"S3Location": {
  "base":
    "<p>Details of the S3 bucket that report generator reports are published to.</p>",
  "refs": {
    "ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
  }
},

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"ServerInternalException": {
  "base": "<p>The server experienced an internal error. Try again.</p>",
  "refs": {
  }
},
"SignedToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
    "CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
  }
},
"StatusReasonMessage": {
  "base": null,
  "refs": {
    "CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
    "DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
    "Grant$StatusReason": "<p>Grant status reason.</p>",
    "ReceivedMetadata$ReceivedStatusReason": "<p>Received status reason.</p>"
  }
},
"String": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Version": "<p>Grant version.</p>",
    "CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",
    "CheckoutLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseArn":
      "<p>Amazon Resource Name (ARN) of the checkout license.</p>",
    "CreateGrantRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantRequest$HomeRegion": "<p>Home Region of the grant.</p>",
    "CreateGrantResponse$Version": "<p>Grant version.</p>",
    "CreateGrantVersionRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantVersionRequest$SourceVersion": "<p>Current version of the grant.</p>",
    "CreateGrantVersionResponse$Version": "<p>New version of the grant.</p>",
    "CreateLicenseConfigurationRequest$Name": "<p>Name of the license configuration.</p>",
    "CreateLicenseConfigurationRequest$Description": "<p>Description of the license configuration.</p>",
    "CreateLicenseConfigurationResponse$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the

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license configuration.</p>",

"CreateLicenseManagerReportGeneratorRequest\$Description": "<p>Description of the report generator.</p>",

"CreateLicenseManagerReportGeneratorResponse\$LicenseManagerReportGeneratorArn":

<p>The Amazon Resource Name (ARN) of the new report generator.</p>",

"CreateLicenseRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseRequest\$ProductSKU": "<p>Product SKU.</p>",

"CreateLicenseRequest\$HomeRegion": "<p>Home Region for the license.</p>",

"CreateLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CreateLicenseResponse\$Version": "<p>License version.</p>",

"CreateLicenseVersionRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseVersionRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseVersionRequest\$HomeRegion": "<p>Home Region of the license.</p>",

"CreateLicenseVersionRequest\$SourceVersion": "<p>Current version of the license.</p>",

"CreateLicenseVersionResponse\$Version": "<p>New version of the license.</p>",

"CreateTokenResponse\$TokenId":

<p>Token ID.</p>",

"DeleteGrantRequest\$Version": "<p>Current version of the grant.</p>",

"DeleteGrantResponse\$Version": "<p>Grant version.</p>",

"DeleteLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",

"DeleteLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon

Resource Name (ARN) of the report generator to be deleted.</p>",

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name": "<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue":

<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the

license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license

configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the

license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license

configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license

configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",

"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey":

<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$Name": "<p>Issuer name.</p>",

"IssuerDetails\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$KeyFingerprint": "<p>Issuer key fingerprint.</p>",

"License\$LicenseName": "<p>License name.</p>",

"License\$ProductName": "<p>Product name.</p>",

"License\$ProductSKU": "<p>Product SKU.</p>",

"License\$HomeRegion": "<p>Home Region of the license.</p>",

"License\$Beneficiary": "<p>License beneficiary.</p>",

"License\$Version": "<p>License version.</p>",

"LicenseConfiguration\$LicenseConfigurationId": "<p>Unique ID of the license configuration.</p>",

"LicenseConfiguration\$LicenseConfigurationArn":

<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseConfiguration\$Name": "<p>Name of the license configuration.</p>",

"LicenseConfiguration\$Description": "<p>Description of the license configuration.</p>",

"LicenseConfiguration\$Status": "<p>Status of the license configuration.</p>",

"LicenseConfiguration\$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",

"LicenseConfigurationAssociation\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationAssociation\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>",

"LicenseConfigurationAssociation\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"LicenseConfigurationUsage\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationUsage\$ResourceStatus":

"<p>Status of the resource.</p>",

"LicenseConfigurationUsage\$ResourceOwnerId": "<p>ID of the account that owns the resource.</p>",

"LicenseConversionTask\$ResourceArn": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>",

"LicenseConversionTask\$StatusMessage": "<p>The status message for the conversion task.</p>",

"LicenseOperationFailure\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseOperationFailure\$ErrorMessage": "<p>Error message.</p>",

"LicenseOperationFailure\$OperationName": "<p>Name of the operation.</p>",

"LicenseOperationFailure\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",

"LicenseOperationFailure\$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",

"LicenseSpecification\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseSpecification\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListAssociationsForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationResponse\$NextToken":

"<p>Token for the next set of results.</p>",

"ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"MaxSize3StringList\$member": null,

"Metadata\$Name": "<p>The key name.</p>",

"Metadata\$Value": "<p>The value.</p>",

"ProductInformation\$ResourceType": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",

"ProductInformationFilter\$ProductInformationFilterName": "<p>Filter name.</p>",

"ProductInformationFilter\$ProductInformationFilterComparator": "<p>Logical operator.</p>",

"RejectGrantResponse\$Version": "<p>Grant version.</p>",

"ReportGenerator\$ReportGeneratorName": "<p>Name of the report generator.</p>",

"ReportGenerator\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"ReportGenerator\$LastRunStatus": "<p>Status of the last report generation attempt.</p>",

"ReportGenerator\$LastRunFailureReason": "<p>Failure message for the last report generation attempt.</p>",

"ReportGenerator\$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",

"ReportGenerator\$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the report generator.</p>",

"ReportGenerator\$Description": "<p>Description of the report generator.</p>",

"ReportGenerator\$CreateTime": "<p>Time the report was created.</p>",

"ResourceInventory\$ResourceId": "<p>ID of the resource.</p>",

"ResourceInventory\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"ResourceInventory\$Platform": "<p>Platform of the resource.</p>",

"ResourceInventory\$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",

"ResourceInventory\$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",

"S3Location\$bucket": "<p>Name of the S3 bucket reports are published to.</p>",

"S3Location\$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",

"StringList\$member": null,

"Tag\$Key": "<p>Tag key.</p>",

"Tag\$Value": "<p>Tag value.</p>",

```

    "TagKeyList$member": null,
    "TagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
    "TokenData$TokenId": "<p>Token ID.</p>",
    "TokenData$TokenType": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>",
    "TokenData$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "TokenData$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>",
    "UntagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
    "UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
    "UpdateLicenseConfigurationRequest$Name":
    "<p>New name of the license configuration.</p>",
    "UpdateLicenseConfigurationRequest$Description": "<p>New description of the license configuration.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon
Resource Name (ARN) of the report generator to update.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the
Amazon Web Services resource.</p>",
    "UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3
bucket where the License Manager information is stored.</p>",
    "UpdateServiceSettingsRequest$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS
topic used for License Manager alerts.</p>"
  }
},
"StringList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseRules":
    "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The
available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code> dimension:
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> |
<code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code> dimension:
<code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p> </li> <li> <p> <code>Sockets</code> dimension:
<code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code> dimension:
<code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |
<code>minimumVcpus</code> </p> </li> </ul> <p>The unit for <code>licenseAffinityToHost</code>
is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-
Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible
values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",
    "GetLicenseConfigurationResponse$LicenseRules": "<p>License rules.</p>",
    "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
    "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the
license configurations.</p>",

```

```

    "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
    "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
    "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add
after you create a license configuration is licenseAffinityToHost.</p>"
  }
},
"Tag": {
  "base": "<p>Details about a tag
for a license configuration.</p>",
  "refs": {
    "TagList$member": null
  }
},
"TagKeyList": {
  "base": null,
  "refs": {
    "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
  }
},
"TagList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
    "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
    "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
    "ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
    "ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
    "TagResourceRequest$Tags": "<p>One or more tags.</p>"
  }
},
"TagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"TagResourceResponse": {
  "base": null,
  "refs": {
  }
},
"TokenData": {
  "base": "<p>Describes a token.</p>",
  "refs": {
    "TokenList$member": null
  }
},
"TokenList": {

```

```

"base": null,
"refs": {
  "ListTokensResponse$Tokens": "<p>Received token details.</p>"
}
},
"TokenString": {
  "base": null,
  "refs": {
    "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
  }
},
"TokenType": {
  "base": null,
  "refs": {
    "CreateTokenResponse$TokenType": "<p>Token type.</p>"
  }
},
"UnsupportedDigitalSignatureMethodException": {
  "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
  "refs": {
  }
},
"UntagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"UntagResourceResponse": {
{
  "base": null,
  "refs": {
  }
},
"UpdateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

```

```

    }
  },
  "UpdateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href='\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
}
{
  "version": "2.0",
  "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running
Amazon EC2 instances.</p>",

```

```

"operations": {
  "GetServiceSettings": "<p>Lists the Linux subscriptions service settings.</p>",
  "ListLinuxSubscriptionInstances": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux subscriptions.</p>",
  "ListLinuxSubscriptions": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your
organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
  "UpdateServiceSettings": "<p>Updates the service settings for Linux subscriptions.</p>"
},
"shapes": {
  "Boolean": {
    "base": null,
    "refs": {
      "UpdateServiceSettingsRequest$AllowUpdate": "<p>Describes if updates are allowed to the service settings for
Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in
more than one home Region.</p>"
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
      "ListLinuxSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "BoxLong": {
    "base": null,
    "refs": {
      "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
    }
  },
  "Filter": {
    "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be
used to match a set of resources by specific criteria.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the
results to those that match one
or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>AmiID</code>
with an optional operator to see subscriptions that match, partially match, or don't match a certain Amazon Machine
Image (AMI) ID.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>AmiID</code> </p> </li>
<li> <p> <code>InstanceID</code> </p> </li> <li> <p> <code>AccountID</code> </p> </li> <li> <p>
<code>Status</code> </p> </li> <li> <p> <code>Region</code> </p> </li> <li> <p>

```

<code>UsageOperation</code> </p> <p> <code>ProductCode</code> </p> <p> <code>InstanceType</code> </p> <p>The valid Operators for this filter are:</p> <p> <code>contains</code> </p> <p> <code>equals</code> </p> <p> <code>Notequal</code> </p> ",

"ListLinuxSubscriptionsRequest\$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <p> <code>Subscription</code> </p> <p>The valid Operators for this filter are:</p> <p> <code>contains</code> </p> <p> <code>equals</code> </p> <p> <code>Notequal</code> </p> "

```

    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Instance": {
    "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
    "refs": {
      "InstanceList$member": null
    }
  },
  "InstanceList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesResponse$Instances":
"<p>An array that contains instance objects.</p>"
    }
  },
  "InternalServerError": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "LinuxSubscriptionsDiscovery": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",

```

```

    "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>"
  },
  "LinuxSubscriptionsDiscoverySettings": {
    "base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux
subscriptions discovery. The settings
include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>"
    }
  },
  "ListLinuxSubscriptionInstancesRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
    "refs": {
    }
  },
  "ListLinuxSubscriptionInstancesRequestNextTokenString": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$NextToken":
"<p>Token for the next set of results.</p>"
    }
  },
  "ListLinuxSubscriptionInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsRequest$NextToken": "<p>Token for the next set of results.</p>"
    }
  },
}

```



```

"ListLinuxSubscriptionsResponse": {
  "base": null,
  "refs": {
  },
},
"Operator": {
  "base": null,
  "refs": {
    "Filter$Operator": "<p>An operator for filtering results.</p>"
  }
},
"OrganizationIntegration": {
  "base": null,
  "refs": {
    "LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": "<p>Details if you have enabled resource
discovery across
your accounts in Organizations.</p>"
  }
},
"ProductCodeList": {
  "base": null,
  "refs": {
    "Instance$ProductCode": "<p>The product code for the instance. For more information, see <a
href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\"'>Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
  }
},
"Status": {
  "base": null,
  "refs": {
    "GetServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>",
    "UpdateServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
  }
},
"String": {
  "base": null,
  "refs": {
    "Filter$Name": "<p>The type of name to filter by.</p>",
    "Instance$AccountID": "<p>The account ID which owns the instance.</p>",
    "Instance$AmiId": "<p>The AMI ID used to launch the instance.</p>",
    "Instance$InstanceID": "<p>The instance ID of the resource.</p>",
    "Instance$InstanceType": "<p>The instance type of the resource.</p>",
    "Instance$LastUpdatedTime": "<p>The time in which the last discovery updated the instance details.</p>",
    "Instance$Region": "<p>The Region the instance is running in.</p>",
    "Instance$Status": "<p>The status of the instance.</p>",
    "Instance$SubscriptionName": "<p>The name of the subscription being used by the instance.</p>",

```

"Instance\$UsageOperation": "<p>The usage operation of the instance. For more information, see For more information, see Usage operation values in the <i>License Manager User Guide</i>.</p>",

"InternalServerException\$message": null,

"ListLinuxSubscriptionInstancesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLinuxSubscriptionsResponse\$NextToken":

<p>Token for the next set of results.</p>",

"ProductCodeList\$member": null,

"StringMap\$key": null,

"StringMap\$value": null,

"Subscription\$Name": "<p>The name of the subscription.</p>",

"Subscription\$Type": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>",

"ThrottlingException\$message": null,

"ValidationException\$message": null

}

},

"StringList": {

"base": null,

"refs": {

"Filter\$Values": "<p>One or more values for the name to filter by.</p>",

"GetServiceSettingsResponse\$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>",

"LinuxSubscriptionsDiscoverySettings\$SourceRegions":

<p>The Regions in which to discover data for Linux subscriptions.</p>",

"UpdateServiceSettingsResponse\$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>"

}

},

"StringListMemberString": {

"base": null,

"refs": {

"StringList\$member": null

}

},

"StringMap": {

"base": null,

"refs": {

"GetServiceSettingsResponse\$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>",

"UpdateServiceSettingsResponse\$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>"

}

},

"Subscription": {

"base": "<p>An object which details a discovered Linux subscription.</p>",

```

    "refs": {
      "SubscriptionList$member": null
    }
  },
  "SubscriptionList": {
    "base": null,
    "refs": {

      "ListLinuxSubscriptionsResponse$Subscriptions": "<p>An array that contains subscription objects.</p>"
    }
  },
  "ThrottlingException": {
    "base": "<p>The request was denied due to request throttling.</p>",
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
  ],

```

```

{
  "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "ap-east-1"
  }
},
{
  "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
  "endpoint": {
    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
  }
},
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "ap-northeast-1"
  }
},
{
  "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "ap-northeast-2"
  }
},
{
  "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.ap-northeast-3.amazonaws.com"
    }
  },
  "params": {

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        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-3"
    }
},
{
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-south-1"
    }
},
{
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack":
false,
        "Region": "ap-southeast-1"
    }
},
{
    "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-southeast-2"
    }
},
{
    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
    "expect": {

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        "endpoint": {
            "url": "https://license-manager.ap-southeast-3.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-southeast-3"
    }
},
{
    "documentation":
    "For region ca-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ca-central-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ca-central-1"
    }
},
{
    "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-central-1"
    }
},
{
    "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint":
    {
        "url": "https://license-manager.eu-north-1.amazonaws.com"
    }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,

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        "Region": "eu-north-1"
    },
    {
        "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "eu-south-1"
        }
    },
    {
        "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-1.amazonaws.com"
            }
        },
        "params":
    {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-1"
    }
    },
    {
        "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "eu-west-2"
        }
    },
    {
        "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
        }
    }
}

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    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-3"
  }
},
{
  "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.me-south-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "me-south-1"
  }
},
{
  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "sa-east-1"
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-east-1"
  }
}

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},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-east-1"
  }
},
{
  "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-east-2"
  }
},
{
  "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-east-2"
  }
},
{
  "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-1.amazonaws.com"
    }
  },

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    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-west-1"
    }
  },
  {
    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-west-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-west-1"
    }
  },
  {
    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-west-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-west-2"
    }
  },
  {
    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-west-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-west-2"
    }
  },
  {

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"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-fips.us-east-1.api.aws"
  }
},
"params": {
  "UseFIPS": true,
  "UseDualStack": true,
  "Region": "us-east-1"
}
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": true,
    "Region": "us-east-1"
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "cn-north-1"
  }
},
{
  "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
    }
  },
  "params": {
    "UseFIPS": false,

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        "UseDualStack": false,
        "Region": "cn-northwest-1"
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "cn-north-1"
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "cn-north-1"
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "cn-north-1"
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {

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        "url": "https://license-manager.us-gov-east-1.amazonaws.com"
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-gov-east-1"
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-gov-east-1"
    }
},
{
    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-gov-west-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-gov-west-1"
    }
},
{
    "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-gov-west-1"
    }
}

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    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-gov-east-1.api.aws"
        }
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      "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-gov-east-1"
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-gov-east-1"
      }
    }
  ],
  {
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-iso-east-1"
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "UseFIPS": true,

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        "UseDualStack": true,
        "Region": "us-iso-east-1"
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {

        "endpoint": {
            "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-iso-east-1"
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-iso-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params":
{
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },

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    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-isob-east-1"
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-isob-east-1"
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-isob-east-1"
    }
  },
  {
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {

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        "url": "https://example.com"
    }
},
"params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
}
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "Missing region",
    "expect": {
        "error": "Invalid Configuration: Missing Region"
    }
}
],
"version": "1.0"
}
{
    "testCases": [
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {

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        "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseDualStack": true,
        "UseFIPS": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseDualStack": false,
        "UseFIPS": true
    }
},
{
    "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseDualStack": true,
        "UseFIPS": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseDualStack": false,
        "UseFIPS": false
    }
}

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    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseDualStack": true,
        "UseFIPS": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseDualStack": false,
        "UseFIPS": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseDualStack": true,
        "UseFIPS": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
    },
  ],
}

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    "params": {
      "Region": "cn-north-1",
      "UseDualStack": false,
      "UseFIPS": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region":
"us-iso-east-1",
      "UseDualStack": true,
      "UseFIPS": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseDualStack": false,
      "UseFIPS": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseDualStack": true,
      "UseFIPS": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"

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    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseDualStack": false,
    "UseFIPS": false
  }
},
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  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": true,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect":
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  "endpoint": {
    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
  }
},
  "params": {
    "Region": "us-east-1",
    "UseDualStack": false,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": true,
    "UseFIPS": false
  }
},

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{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": false,
    "UseFIPS": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": true,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": false,
    "UseFIPS": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": true,
    "UseFIPS": false
  }
},

```

```

{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseDualStack": false,
    "UseFIPS": false
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": false,
    "UseFIPS": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": false,
    "UseFIPS": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseDualStack": true,

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        "UseFIPS": false,
        "Endpoint": "https://example.com"
    }
}
],
"version": "1.0"
}
{
    "version": "1.0",
    "examples": {
    }
}
{
    "pagination": {
        "ListIdentityProviders": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "IdentityProviderSummaries"
        },
        "ListInstances": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "InstanceSummaries"
        },
        "ListProductSubscriptions": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "ProductUserSummaries"
        },
        "ListUserAssociations": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "InstanceUserSummaries"
        }
    }
}
{
    "version": "1.0",
    "parameters": {
        "Region": {
            "builtIn": "AWS::Region",
            "required": true,
            "documentation": "The AWS region used to dispatch the request.",
            "type": "String"
        }
    }
}

```



```

    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
          "assign": "PartitionResult"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "isSet",
              "argv": [
                {
                  "ref": "Endpoint"
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}

```

```

        ]
      }
    ],
    "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ]
    },
    {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ]
        },
        {
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
          "type": "error"
        },
        {
          "conditions": [],
          "endpoint": {
            "url": {
              "ref": "Endpoint"
            },
            "properties":

```

```

    {},
    {
      "headers": {}
    },
    {
      "type": "endpoint"
    }
  ]
}
]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    },
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ]
}

],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsFIPS"
            ]
          }
        ]
      }
    ]
  }
]

```

```

    ]
  },
  {
    "fn": "booleanEquals",
    "argv": [
      true,
      {
        "fn": "getAttr",
        "argv": [
          {
            "ref": "PartitionResult"
          },
          "supportsDualStack"
        ]
      }
    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
],
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
  "type": "error"
}
],
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true

```

```

    ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  {
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
  }
],
{
  "conditions": [

```

```

{
  "fn": "booleanEquals",
  "argv": [
    {
      "ref": "UseDualStack"
    },
    true
  ]
},
{
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                }
              ],
            },
          ],
        },
      ],
      "supportsDualStack"
    },
    {
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        },
      ],
    },
    {
      "conditions": [],

```

```

        "error":
        "DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
}

```

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```

{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-05-10",
    "endpointPrefix":"license-manager-user-subscriptions",
    "jsonVersion":"1.1",
    "protocol":"rest-json",
    "serviceFullName":"AWS License Manager User Subscriptions",
    "serviceId":"License Manager User Subscriptions",
    "signatureVersion":"v4",
    "signingName":"license-manager-user-subscriptions",
    "uid":"license-manager-user-subscriptions-2018-05-10"
  },
  "operations":{
    "AssociateUser":{
      "name":"AssociateUser",
      "http":{
        "method":"POST",
        "requestUri":"/user/AssociateUser",
        "responseCode":200
      },
      "input":{"shape":"AssociateUserRequest"},
      "output":{"shape":"AssociateUserResponse"},
      "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
      ],
      "idempotent":true
    },
    "DeregisterIdentityProvider":{
      "name":"DeregisterIdentityProvider",
      "http":{
        "method":"POST",
        "requestUri":"/identity-provider/DeregisterIdentityProvider",
        "responseCode":200
      },
      "input":{"shape":"DeregisterIdentityProviderRequest"},
      "output":{"shape":"DeregisterIdentityProviderResponse"},
      "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},

```



```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"DisassociateUser":{
  "name":"DisassociateUser",
  "http":{
    "method":"POST",
    "requestUri":"/user/DisassociateUser",
    "responseCode":200
  },
  "input":{"shape":"DisassociateUserRequest"},
  "output":{"shape":"DisassociateUserResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListInstances":{
  "name":"ListInstances",
  "http":{

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```

    "method": "POST",
    "requestUri": "/instance/ListInstances",
    "responseCode": 200
  },
  "input": { "shape": "ListInstancesRequest" },
  "output": { "shape": "ListInstancesResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "AccessDeniedException" }
  ]
},
"ListProductSubscriptions": {
  "name": "ListProductSubscriptions",
  "http": {
    "method": "POST",
    "requestUri": "/user/ListProductSubscriptions",
    "responseCode": 200
  },
  "input": { "shape": "ListProductSubscriptionsRequest" },
  "output": { "shape": "ListProductSubscriptionsResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "AccessDeniedException" }
  ]
},
"ListUserAssociations": {
  "name": "ListUserAssociations",
  "http": {
    "method": "POST",
    "requestUri": "/user/ListUserAssociations",
    "responseCode": 200
  },
  "input": { "shape": "ListUserAssociationsRequest" },
  "output": { "shape": "ListUserAssociationsResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },

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```

        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
    ]
},
"RegisterIdentityProvider":{
    "name":"RegisterIdentityProvider",
    "http":{
        "method":"POST",
        "requestUri":"/identity-provider/RegisterIdentityProvider",
        "responseCode":200
    },
    "input":{"shape":"RegisterIdentityProviderRequest"},
    "output":{"shape":"RegisterIdentityProviderResponse"},
    "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
    ],
    "idempotent":true
},
"StartProductSubscription":{
    "name":"StartProductSubscription",
    "http":{
        "method":"POST",
        "requestUri":"/user/StartProductSubscription",
        "responseCode":200
    },
    "input":{"shape":"StartProductSubscriptionRequest"},

    "output":{"shape":"StartProductSubscriptionResponse"},
    "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
    ]
},
"StopProductSubscription":{
    "name":"StopProductSubscription",

```

```

"http":{
  "method":"POST",
  "requestUri":"/user/StopProductSubscription",
  "responseCode":200
},
"input":{"shape":"StopProductSubscriptionRequest"},
"output":{"shape":"StopProductSubscriptionResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},

  {"shape":"AccessDeniedException"}
]
},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
  "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{
      "DirectoryId":{"shape":"String"}
    }
  }
}

```

```

    }
  },
  "AssociateUserRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "AssociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{"shape":"InstanceUserSummary"}
    }
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "ConflictException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true,
    "fault":true
  },
  "DeregisterIdentityProviderRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
    ],
    "members":{
      "IdentityProvider":{"shape":"IdentityProvider"},
      "Product":{"shape":"String"}
    }
  },
  "DeregisterIdentityProviderResponse":{
    "type":"structure",

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```

    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
    }
  },
  "DisassociateUserRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{"shape":"InstanceUserSummary"}
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Attribute":{"shape":"String"},
      "Operation":{"shape":"String"},
      "Value":{"shape":"String"}
    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "IdentityProvider":{
    "type":"structure",
    "members":{
      "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
    },
    "union":true
  },
  "IdentityProviderSummary":{
    "type":"structure",
    "required":[

```

```

    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members":{
    "FailureMessage":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"},
    "Status":{"shape":"String"}
  }
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
    "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{"shape":"String"},
    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},

```

```

    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{

    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{"shape":"InstanceSummaryList"},
    "NextToken":{"shape":"String"}
  }
}

```



```

    }
  },
  "ListProductSubscriptionsRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
    ],
    "members":{
      "Filters":{"shape":"FilterList"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Product":{"shape":"String"}
    }
  },
  "ListProductSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
    }
  },
  "ListUserAssociationsRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId"
    ],
    "members":{
      "Filters":{"shape":"FilterList"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListUserAssociationsResponse":{
    "type":"structure",
    "members":{
      "InstanceUserSummaries":{"shape":"InstanceUserSummaryList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ProductUserSummary":{
    "type":"structure",
    "required":[

```

```

    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "SubscriptionEndDate":{"shape":"String"},
    "SubscriptionStartDate":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "error":{
    "httpStatusCode":404,
    "senderFault":true
  },

```

```

    "exception":true
  },
  "SecurityGroup":{
    "type":"string",
    "max":200,
    "min":5,
    "pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
  },
  "ServiceQuotaExceededException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  },
  "Settings":{
    "type":"structure",
    "required":[
      "SecurityGroupId",
      "Subnets"
    ],
    "members":{
      "SecurityGroupId":{"shape":"SecurityGroup"},
      "Subnets":{"shape":"SettingsSubnetsList"}
    }
  },
  "SettingsSubnetsList":{
    "type":"list",
    "member":{"shape":"Subnet"},
    "min":1
  },
  "StartProductSubscriptionRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "Product":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "StartProductSubscriptionResponse":{
    "type":"structure",
    "required":["ProductUserSummary"],

```

```

"members":{
  "ProductUserSummary":{"shape":"ProductUserSummary"}
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":[]
}

```

```

    "IdentityProvider",
    "Product",
    "UpdateSettings"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "UpdateSettings":{"shape":"UpdateSettings"}
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{"shape":"Subnets"},
    "RemoveSubnets":{"shape":"Subnets"},
    "SecurityGroupId":{"shape":"SecurityGroup"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}

```

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```
{
  "pagination": {
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
```

```

    {
      "fn": "isSet",
      "argv": [
        {
          "ref": "Endpoint"
        }
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
          "type": "error"
        },
        {
          "conditions": [],

```

```

"endpoint": {
    "url": {
        "ref": "Endpoint"
    },
    "properties": {},
    "headers": {}
},
"type": "endpoint"
}
]
}
],
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ]
                        }
                    ],
                    "assign": "PartitionResult"
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {

```

true

```
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ],
    },
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ],
    },
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ],
            }
          ],
        }
      ],
    },
    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            }
          ],
        }
      ],
    }
  ],
}
```

```

        },
        "supportsDualStack"
    ]
    }
    ]
    }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
    }

    ],
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
        "type": "error"
    }
    ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ]
    }

```

```

    ]
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              }
            ]
          }
        ]
      }
    ],
    "supportsFIPS"
  }
],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "endpoint": {
          "url":
"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
          "properties": {},
          "headers": {}
        },
        "type": "endpoint"
      }
    ]
  }
],
{
  "conditions": [],
  "error": "FIPS is enabled but this partition does not support FIPS",
  "type": "error"
}

```

```

    }
  ]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv":
[
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "type": "tree",
          "rules": [
            {
              "conditions": [],
              "endpoint": {
                "url": "https://license-

```



```

manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
]

}
],
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}
]
}
]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
]
}

```

1.446 azure-sdk-for-go-sdk-azcore v36.2.0

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```
//go:build go1.18
```

```
// +build go1.18
```

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```

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```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package fake
```

```
import (
```

```
    "context"
```

```
    "errors"
```

```
    "fmt"
```

```
    azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
```

```
    "net/http"
```

```

"net/url"
"regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
    // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
    // HTTP status codes to indicate success:
    http.StatusOK
    BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

    // BeginDelete is the fake for method LicensesClient.BeginDelete
    // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
    BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

    // Get is the fake for method LicensesClient.Get
    // HTTP status codes to indicate success: http.StatusOK
    Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
errResp azfake.ErrorResponder)

    // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
    // HTTP status codes to indicate success: http.StatusOK
    NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

    // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
    // HTTP status codes to indicate success: http.StatusOK
    NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

    // BeginUpdate is the fake for method LicensesClient.BeginUpdate
    // HTTP status codes to indicate success: http.StatusOK
    BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

    // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
    // HTTP status codes to indicate success: http.StatusOK
    BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp

```

```

azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
// implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
// via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
{
    return &LicensesServerTransport{
        srv:          srv,
        beginCreateOrUpdate:
        newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
        beginDelete:    newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
        newListByResourceGroupPager:
        newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
        newListBySubscriptionPager:
        newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
        beginUpdate:    newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
        beginValidateLicense:
        newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
    }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
// instead.
type LicensesServerTransport struct {
    srv          *LicensesServer
    beginCreateOrUpdate
    *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
    beginDelete    *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
    newListByResourceGroupPager
    *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
    newListBySubscriptionPager
    *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
    beginUpdate    *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
    beginValidateLicense
    *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
    rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
    method,

```

```

ok := rawMethod.(string)
if !ok {
    return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
}

var resp *http.Response
var err error

switch method {
case "LicensesClient.BeginCreateOrUpdate":
    resp, err = l.dispatchBeginCreateOrUpdate(req)
case "LicensesClient.BeginDelete":
    resp, err = l.dispatchBeginDelete(req)
case "LicensesClient.Get":
    resp, err = l.dispatchGet(req)
case "LicensesClient.NewListByResourceGroupPager":
    resp, err = l.dispatchNewListByResourceGroupPager(req)
case "LicensesClient.NewListBySubscriptionPager":
    resp, err = l.dispatchNewListBySubscriptionPager(req)
case "LicensesClient.BeginUpdate":
    resp, err = l.dispatchBeginUpdate(req)
case "LicensesClient.BeginValidateLicense":
    resp, err = l.dispatchBeginValidateLicense(req)
default:
    err = fmt.Errorf("unhandled API %s", method)
}

if err != nil {
    return nil, err
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
    *http.Request) (*http.Response, error) {
    if l.srv.BeginCreateOrUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
    }
    beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
    if beginCreateOrUpdate == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
    }
}

```

```

    }
    body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
    if err != nil {
        return nil, err
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return
    }
    nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
    nil)
    if respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    beginCreateOrUpdate = &respr
    l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.beginCreateOrUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
    resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {
    l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
    if l.srv.BeginDelete
    == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
    }
    beginDelete := l.beginDelete.get(req)
    if beginDelete == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]_a-zA-Z0-

```

```

9~%[@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-
9~%[@]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\[_a-zA-Z0-9~%[@]+)`
    regex := regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 3 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
    if
    respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    beginDelete = &respr
    l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
    l.beginDelete.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
    l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
    if l.srv.Get == nil {
        return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
    }
    const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-
9~%[@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-
9~%[@]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\[_a-zA-Z0-9~%[@]+)`

```

```

regex
:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
    return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
if err != nil {
    return nil, err
}
licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
    return nil, err
}
respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
    return nil, respErr
}
respContent := server.GetResponseContent(respr)
if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
}
resp, err := server.MarshalResponseAsJSON(respContent,
server.GetResponse(respr).License, req)
if err != nil {
    return nil, err
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
    if l.srv.NewListByResourceGroupPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
    }
    newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
    if newListByResourceGroupPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/providers/Microsoft.HybridCompute/licenses`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 2 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if

```



```

err != nil {
    return nil, err
}
resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
newListByResourceGroupPager = &resp
l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
    page.NextLink = to.Ptr(createLink())
})
}
resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
    return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.newListByResourceGroupPager.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
    l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
    if l.srv.NewListBySubscriptionPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
    }
    newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
    if newListBySubscriptionPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\_a-zA-Z0-
9~%@]+)/providers/Microsoft.HybridCompute/licenses`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resp := l.srv.NewListBySubscriptionPager(nil)
        newListBySubscriptionPager = &resp
        l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
        server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
            page.NextLink = to.Ptr(createLink())
        })
    }
}

```

```

resp,
err := server.PagerResponderNext(newListBySubscriptionPager, req)
if err != nil {
    return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.newListBySubscriptionPager.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListBySubscriptionPager) {
    l.newListBySubscriptionPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
    if l.srv.BeginUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
    }
    beginUpdate := l.beginUpdate.get(req)
    if beginUpdate == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)`
        regex
:= regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
        if err != nil {
            return nil, err
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if err != nil {
            return nil, err
        }
        licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
        if respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginUpdate = &respr
    }
}

```

```

l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
    l.beginUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
    l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
    if l.srv.BeginValidateLicense == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
    }
    beginValidateLicense := l.beginValidateLicense.get(req)
    if beginValidateLicense == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]_a-zA-Z0-9~%@]+)/providers/Microsoft.HybridCompute/validateLicense`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body,
        err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
        if respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginValidateLicense = &respr
        l.beginValidateLicense.add(req, beginValidateLicense)
    }

    resp, err := server.PollerResponderNext(beginValidateLicense, req)

```

```

if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.beginValidateLicense.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
    l.beginValidateLicense.remove(req)
}

return resp, nil
}
azwebpubsub

```

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```
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```

```
// +build go1.18
```

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```

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```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package armhybridcompute
```

```
import (  
    "context"  
    "errors"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"  
    "net/http"  
    "net/url"  
    "strings"  
)
```

```
// LicensesClient contains the methods for the Licenses group.
```

```

// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
    internal    *arm.Client
    subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
// - subscriptionID - The ID of the target
// subscription.
// - credential - used to authorize requests. Usually a credential from azidentity.
// - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
    cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
    if err != nil {
        return nil, err
    }
    client := &LicensesClient{
        subscriptionID: subscriptionID,
        internal:    cl,
    }
    return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - parameters - Parameters supplied to the Create license operation.
// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {

```

```

    return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]){
    Tracer: client.internal.Tracer(),
})
}
}

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginCreateOrUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
    return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }

```

```

}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if licenseName == "" {
    return nil, errors.New("parameter licenseName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
req, err := runtime.NewRequest(ctx,
http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
if err := runtime.MarshalAsJSON(req, parameters); err != nil {
    return nil, err
}
return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
            Tracer: client.internal.Tracer(),
        })
    }
}

```

```

}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
    var err error
    const
        operationName = "LicensesClient.BeginDelete"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
    return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
    urlPath :=
        "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if
        client.subscriptionID == "" {
            return nil, errors.New("parameter client.subscriptionID cannot be empty")
        }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))

```

```

req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// Get - Retrieves information about the view of a license.
//
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
    var err error
    const operationName = "LicensesClient.Get"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
    if err != nil {
        return LicensesClientGetResponse{}, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        {
            return LicensesClientGetResponse{}, err
        }
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return LicensesClientGetResponse{}, err
    }
    resp, err := client.getHandleResponse(httpResp)
    return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens

```

```

es/{licenseName}"
if client.subscriptionID == "" {
    return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
if resourceGroupName == "" {
    return nil, errors.New("parameter resourceGroupName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if
licenseName == "" {
    return nil, errors.New("parameter licenseName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
    result := LicensesClientGetResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
        return LicensesClientGetResponse{}, err
    }
    return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
        More: func(page LicensesClientListByResourceGroupResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
    },

```

```

    Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
    nextLink := ""
    if page != nil {
        nextLink = *page.NextLink
    }
    resp,
err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
}, nil)
    if err != nil {
        return LicensesClientListByResourceGroupResponse{}, err
    }
    return client.listByResourceGroupHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
})
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if
client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.

```



```

func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
    result := LicensesClientListByResourceGroupResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
        return LicensesClientListByResourceGroupResponse{}, err
    }
    return
    result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]){
        More: func(page LicensesClientListBySubscriptionResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
        Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
            ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
            nextLink := ""
            if page != nil {
                nextLink = *page.NextLink
            }
            resp,
            err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
                return client.listBySubscriptionCreateRequest(ctx, options)
            }, nil)
            if err != nil {
                return LicensesClientListBySubscriptionResponse{}, err
            }
            return client.listBySubscriptionHandleResponse(resp)
        },
        Tracer: client.internal.Tracer(),
    })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
    if client.subscriptionID == "" {

```

```

return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
result := LicensesClientListBySubscriptionResponse{}
if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
return LicensesClientListBySubscriptionResponse{}, err
}
return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName
// - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
if options == nil || options.ResumeToken == "" {
resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
if err != nil {
return nil, err
}
poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
Tracer: client.internal.Tracer(),
})
return poller, err
}

```

```

    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]){
            Tracer:
            client.internal.Tracer(),
        })
    }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return
        nil, err
    }
    return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }

```

```

}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if licenseName == "" {
    return nil, errors.New("parameter licenseName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
if err := runtime.MarshalAsJSON(req, parameters); err != nil {
    return nil, err
}
return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
if options == nil || options.ResumeToken == "" {
    resp, err := client.validateLicense(ctx, parameters, options)
    if err != nil {
        return nil, err
    }
    poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
        Tracer: client.internal.Tracer(),
    })
    return poller, err
} else {
    return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
        Tracer: client.internal.Tracer(),
    })
}
}

```

```

}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginValidateLicense"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
    return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
    if client.subscriptionID
    == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }

```

```

}
return req, nil
}
{
  "main": "dist/src/index.js",
  "dependencies": {
    "@azure-tools/typespec-go": "0.4.4"
  },
  "devDependencies": {
    "@azure-tools/typespec-autorest": "0.55.0",
    "@azure-tools/typespec-azure-core": "0.55.0",
    "@azure-tools/typespec-azure-resource-manager": "0.55.0",
    "@azure-tools/typespec-azure-rulesets": "0.55.0",
    "@azure-tools/typespec-client-generator-core": "0.55.0",
    "@azure-tools/typespec-liftr-base": "0.8.0",
    "@typespec/compiler": "1.0.0-rc.1",
    "@typespec/events": "0.69.0",
    "@typespec/http": "1.0.0-rc.1",
    "@typespec/openapi": "1.0.0-rc.1",
    "@typespec/rest": "0.69.0",
    "@typespec/sse": "0.69.0",
    "@typespec/streams": "0.69.0",
    "@typespec/versioning": "0.69.0"
  }
}

```

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//go:build go1.18

// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.

// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

```

"github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
"github.com/Azure/azure-sdk-for-go/sdk/azidentity"
"github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err !=
    nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
        Location: to.Ptr("eastus2euap"),
        Properties: &armhybridcompute.LicenseProperties{
            LicenseDetails: &armhybridcompute.LicenseDetails{
                Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
                Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
                Processors: to.Ptr[int32](6),
                State:    to.Ptr(armhybridcompute.LicenseStateActivated),
                Target:   to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
            },
            LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
        },
    }, nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    res, err := poller.PollUntilDone(ctx, nil)
    if err !=
    nil {
        log.Fatalf("failed to pull the result: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //     Name: to.Ptr("{licenseName}"),
    //     Type: to.Ptr("Microsoft.HybridCompute/licenses"),

```



```
// ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//     Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//     AssignedLicenses: to.Ptr[int32](2),
//     Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//     ImmutableID: to.Ptr("<generated Guid>"),
//     Processors: to.Ptr[int32](6),
//
//     State: to.Ptr(armhybridcompute.LicenseStateActivated),
//     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
        "{licenseName}", armhybridcompute.License{
            Location: to.Ptr("eastus2euap"),
            Properties: &armhybridcompute.LicenseProperties{
                LicenseDetails: &armhybridcompute.LicenseDetails{
                    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
                    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
                    Processors: to.Ptr[int32](6),
                    State: to.Ptr(armhybridcompute.LicenseStateActivated),
                    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
                },
                LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
            },
        }, nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
}
```

```

}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
    log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//   Name: to.Ptr("{licenseName}"),
//   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//   Location: to.Ptr("eastus2euap"),
//   Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//       AssignedLicenses: to.Ptr[int32](2),
//       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//       ImmutableID: to.Ptr("<generated Guid>"),
//       Processors: to.Ptr[int32](6),
//       State: to.Ptr(armhybridcompute.LicenseStateActivated),
//       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//     },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenantId}"),
//   },
// }

// Generated
from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\_Update.json
func ExampleLicensesClient_BeginUpdate() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",

```

```

armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
    LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
      Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
      Edition:  to.Ptr(armhybridcompute.LicenseEditionDatacenter),
      Processors:
to.Ptr[int32](6),
      State:    to.Ptr(armhybridcompute.LicenseStateActivated),
      Target:    to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
    },
    LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
}, nil)
if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//   Name: to.Ptr("{licenseName}"),
//   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/licenses/{licenseName}"),
//
//   Location: to.Ptr("eastus2euap"),
//   Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//       AssignedLicenses: to.Ptr[int32](8),
//       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//       ImmutableID: to.Ptr("<generated Guid>"),
//       Processors: to.Ptr[int32](6),
//       State: to.Ptr(armhybridcompute.LicenseStateActivated),
//       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//     },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenantId}"),
//   },
// }
}

```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if
    err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //     Name: to.Ptr("{licenseName}"),
    //     Type: to.Ptr("Microsoft.HybridCompute/licenses"),
    //     ID:
    to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
    enses/{licenseName}"),
    //
    //     Location: to.Ptr("eastus2euap"),
    //     Properties: &armhybridcompute.LicenseProperties{
    //         LicenseDetails: &armhybridcompute.LicenseDetails{
    //             Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    //             AssignedLicenses: to.Ptr[int32](8),
    //             Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    //             ImmutableID: to.Ptr("<generated Guid>"),
    //             Processors: to.Ptr[int32](6),
    //             State: to.Ptr(armhybridcompute.LicenseStateActivated),
    //             Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
    //         },
    //         LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
    //         TenantID: to.Ptr("{tenantId}"),
    //     },
    // }

    // Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
```

```

manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    _, err = poller.PollUntilDone(ctx, nil)
    if err != nil {
        log.Fatalf("failed to pull the result: %v", err)
    }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if
    err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
    for pager.More() {
        page, err := pager.NextPage(ctx)
        if err != nil {
            log.Fatalf("failed to advance page: %v", err)
        }
        for _, v := range page.Value {
            // You could use page here. We use blank identifier for just demo purposes.
            _ = v
        }
    }
    // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.

```

Please pay attention that all the values in the output are fake values for just demo purposes.

```
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
//   Name: to.Ptr("{licenseName}"),
//
//   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//   Location: to.Ptr("eastus2euap"),
//   Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//       AssignedLicenses: to.Ptr[int32](8),
//       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//       ImmutableID: to.Ptr("<generated Guid>"),
//       Processors: to.Ptr[int32](6),
//       State: to.Ptr(armhybridcompute.LicenseStateActivated),
//       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//     },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenantId}"),
//   },
// },
// }
}
```

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ListBySubscription.json

func

```
ExampleLicensesClient_NewListBySubscriptionPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
page, err := pager.NextPage(ctx)
if err != nil {
```

```

log.Fatalf("failed to advance page: %v", err)
}
for _, v := range page.Value {
    // You could use page here. We use blank identifier for just demo purposes.
    _ = v
}
// If the HTTP response code is 200 as defined in example definition, your page structure would look as
// follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// page.LicensesListResult = armhybridcompute.LicensesListResult{
//     Value: []*armhybridcompute.License{
//         {
//             Name: to.Ptr("{licenseName}"),
//             Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//             ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//             Location: to.Ptr("eastus2euap"),
//             Properties: &armhybridcompute.LicenseProperties{
//                 LicenseDetails: &armhybridcompute.LicenseDetails{
//                     Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//                     AssignedLicenses: to.Ptr[int32](8),
//                     Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//                     ImmutableID: to.Ptr("<generated Guid>"),
//                     Processors: to.Ptr[int32](6),
//                     State: to.Ptr(armhybridcompute.LicenseStateActivated),
//                     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//                 },
//                 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//                 TenantID: to.Ptr("{tenantId}"),
//             },
//         },
//     },
// }
}

```

1.447 google-cloud-go-iam 1.4.0

1.447.1 Available under license :

```

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```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.

```



```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect
    "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
    reflect "reflect"
    sync "sync"
)

```

```

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

```

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.

```

```

// Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {

```

```

state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. The license pool to update.
//
// The license pool's name field is used to identify the license pool to
// update. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`.
LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
//
Required. The list of fields to update.
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
*x = UpdateLicensePoolRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
return

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

```



```

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
}

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

```

```

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
}

```

```

return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

```

```

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

```

```

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

```

```

}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```



```

    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
        0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
        0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
        0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
        0x6f,
        0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
        0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
        0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
        0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    }

```

0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest

```

```

(*UnassignResponse)(nil),          // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    8, // 13:

```

```

google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
return
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
(*AssignmentProtocol_ManualAssignmentType_)(nil),
(*AssignmentProtocol_AutoAssignmentType_)(nil),
}
type x struct{}
out := protoimpl.TypeBuilder{
File:
protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
NumEnums: 0,
NumMessages: 13,
NumExtensions: 0,
NumServices: 1,
},
GoTypes:

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
    error)
    // Assigns a license to a user.
    Assign(ctx
    context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
    (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

```

```

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

```

```

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in

```

```

*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

```

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible implementations.

```

type UnimplementedLicenseManagementServiceServer struct {
}

```

```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

```

```

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{})) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{})) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if

```



```

interceptor == nil {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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```

```

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }

```

```

}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest

```

```

quest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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```

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
```

```

defer c.Close()

req := &computepb.DeleteLicenseRequest{
    //
    TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```



```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/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

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*compute.LicensesListResponse)
    }
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"
```

```
computePb "cloud.google.com/go/compute/apiv1/computePb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)
```

```
var
```

```
newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
```

```

    gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},

```

```

}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

```

}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

```

```

}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
    who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *log.Logger
}

// 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,
    logger:     internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
if err != nil {
    return err
}

if err := unmarshal(buf,
resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```



```

hds = append(c.xGoogHeaders,
hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

```

```

params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds,
"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute_pb.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

```

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
        if err != nil {
            return err
        }
    })
    if err != nil {
        return nil, err
    }
    return resp, nil
}

```

```

}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// List retrieves the
// list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
// including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
// licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
    }
}

```

```

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

```

```

}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),

```

```

req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}
// Copyright 2025 Google LLC
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```



```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
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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. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    reflect "reflect"
    sync
    "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

```

```

// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
        "EVERYONE":                3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

```

```

}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":          2,
        "READER":          3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)

```

```

*p = x
return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:

```

```

//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,

```

0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
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0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
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0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
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0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
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0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
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0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,

```

0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {

```



```

return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
    NumEnums: 2,
    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

```

```

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/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

```

```

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (

 _ "google.golang.org/genproto/googleapis/api/annotations"

 protorelect "google.golang.org/protobuf/reflect/protorelect"

 protoimpl "google.golang.org/protobuf/runtime/protoimpl"

 reflect "reflect"

 sync

 "sync"

)

const (

 // Verify that this generated code is sufficiently up-to-date.

 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

```

// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

```

```

}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":          2,
        "READER":          3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)

```

```

*p = x
return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:

```

```

//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,

```

0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
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0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,

```

0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
    }
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {

```



```

return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
    NumEnums: 2,
    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

```

1.448 futures 3.4.0

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1.449 contrib-instrumentation-net-http-otelhttp 0.59.0

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1.450 timefmt-go 0.1.6

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1.451 go.temporal.io-sdk 1.31.0

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1.452 go-sql-driver-mysql 1.6.0

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1.453 x-time-rate 0.5.0

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1.454 x-oauth2 0.25.0

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Badger file permissions as non-root service

After the release of 1.50, Jaeger's Docker image is no longer running with root privileges (in

[#4783](https://github.com/jaegertracing/jaeger/pull/4783)). In some installations it may cause issues such as "permission denied" errors when writing data.

A possible workaround for this ([proposed here](https://github.com/jaegertracing/jaeger/issues/4906#issuecomment-1991779425)) is to run an initialization step as `root` that pre-creates the Badger data directory and updates its owner to the user that will run the main Jaeger process.

```
``yaml
```

```
version: "3.9"
```

```
services:
```

```
[...]
```

```
jaeger:
```

```
image: jaegertracing/all-in-one:latest
```

```
command:
```

- "--badger.ephemeral=false"
- "--badger.directory-key=/badger/data/keys"
- "--badger.directory-value=/badger/data/values"
- "--badger.span-store-ttl=72h0m0s" # limit storage to 72hrs

```
environment:
```

- SPAN_STORAGE_TYPE=badger
- # Mount host directory "jaeger_badger_data" as
"/badger" inside the container.
The actual data directory will be "/badger/data",
since we cannot change permissions on the mount.

```
volumes:
```

- jaeger_badger_data:/badger

```
ports:
```

- "16686:16686"
- "14250"
- "4317"

```
depends_on:
```

```
prepare-data-dir:
```

```
condition: service_completed_successfully
```

```
prepare-data-dir:
```

```
# Run this step as root so that we can change the directory owner.
```

```
user: root
```

```
image: jaegertracing/all-in-one:latest
```

```
command: "/bin/sh -c 'mkdir -p /badger/data && touch /badger/data/.initialized && chown -R 10001:10001 /badger/data'"
```

```
volumes:
```

- jaeger_badger_data:/badger

```
volumes:
```

```
jaeger_badger_data:
```

```
``
```

1.456 python 3.12.9-r0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.457 gin-contrib-zap 1.1.4

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1.458 procfs 0.8.0

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4

components:

```
# Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

  */
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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 * be retained, unchanged, in its entirety. If
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 */
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

Codegen template
in t_html_generator.h

```
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*
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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

1.460 x-crypto 0.29.0

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1.461 gorilla-mux 1.8.1

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1.462 go-plugin 1.4.5

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1.463 msgpack 24.3.1-3.ph5

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1.464 puddle 2.2.2

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1.466 brotli 1.1.0-r2

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1.467 reflectwalk 1.0.2

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1.468 codegangsta-cli 1.22.10

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1.469 objx 0.5.0

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1.470 go-jose-go-jose 4.0.2

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1.474 sdk-go 2.15.2

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1.477 zap-exp 1.24.0

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1.478 rich 13.7.1

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1.479 go-jmespath 0.4.0

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1.480 otel-sdk-metric 1.34.0

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1.481 tchannel-go 1.22.1-0.20240528171429-1db37fdea938

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1.482 x-sync 0.9.0

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1.483 otel 1.11.2

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1.487 x-time-rate 0.2.0

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1.488 backoff 4.3.0

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1.489 elastic 7.0.32

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to the Elastic repository.

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1.490 cpp 14.2.0-r4

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.491 alpine-baselayout 3.6.8-r1

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1.505 go-testing-interface 1.14.1

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1.506 go-humanize 1.0.1

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1.507 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 1.31.0

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1.508 tablewriter 0.0.5

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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.510 google-cloud-go-auth 0.5.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    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.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect
    "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
    reflect "reflect"
    sync "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

// The type of assignment protocol.
//
// Types that are assignable to AssignmentType:
//
// *AssignmentProtocol_ManualAssignmentType_
// *AssignmentProtocol_AutoAssignmentType_
AssignmentType
isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
}

```

```

return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
return x.ManualAssignmentType
}
return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
return x.AutoAssignmentType
}
return nil
}

type isAssignmentProtocol_AssignmentType interface {
isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state protoimpl.MessageState
sizeCache protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.

```

```

LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {

```

```

if x != nil {
    return x.Name
}
return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {

```



```

return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
}

```

Required. The list of fields to update.

```
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}
```

```
func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}
```

```
func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}
```

```
func (*UpdateLicensePoolRequest) ProtoMessage() {}
```

```
func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}
```

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor instead.

```
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}
```

```
func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}
```

```
func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
```

```

if x != nil {
    return x.UpdateMask
}
return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

```

```

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

```

```

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return

```

```

// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
*x = EnumerateLicensedUsersRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo()
== nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
return x.Parent
}
return ""
}

```



```

}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License

```

```

ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```

```

[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
    return ms
}

```

```

}
return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protorelect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
    0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x64,
    0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
    0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
    0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,

```

0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
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0x2f, 0x7b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x70, 0x6f, 0x6f, 0x6c, 0x2e, 0x6e,
0x61, 0x6d, 0x65, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75,
0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c,
0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x2f, 0x2a, 0x7d, 0x12, 0xdf, 0x01,
0x0a, 0x06, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x2e,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72,
0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52,
0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63,
0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73,
0x70, 0x6f, 0x6e, 0x73, 0x65, 0x22, 0x58, 0xda, 0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,
0x2f, 0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,
0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3f, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70,
0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,
0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,

0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,
0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,
0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,

```

0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),           // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),          // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),         // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask

```

```

(*timestamppb.Timestamp)(nil),          // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),            // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
    7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse

```

```

10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

```

```

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

```

```

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.


```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)

```

```

if err := dec(in);
err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,

```

```

FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

```

```

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    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 := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {

```

```

    break
}
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    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 := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //

```


TODO: Use resp.

```
_ = resp
}
```

```
func ExampleLicenseManagementClient_GetOperation() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
```

```

compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/computepb"
"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/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }

```

```

resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (

 "bytes"

 "context"

```

"fmt"
"log/slog"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
}

```

```

    },
    GetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
}

```

```

Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.

```

```
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty

if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,

use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners

who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
```

```

*compute.pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.pb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```

type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

```

```

    // The http client.
    httpClient *http.Client

```

```

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

```

```

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

```

```

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

```

```

    logger *slog.Logger
}

```

```

// 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,
    logger:     internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

```

```

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
}

```



```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    // and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
        if err != nil {
            return err
        }
    })

```

```

    }

    if err := unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    }, httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,

```

```

"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

```

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```

```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.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

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{

```

```

c:    c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}

// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
resp := &computepb.LicensesListResponse{}
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32
{
req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
}

```

```

if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

```



```

it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
if err != nil {
    return err
}

if
err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2025 Google LLC
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// You may obtain a copy of the License at
//
// https://www.apache.org/licenses/LICENSE-2.0
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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.

//go:build go1.23

```

```

package compute_test

// Copyright 2025 Google LLC
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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. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    reflect "reflect"
    sync
    "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

```

```

// group.
Permission_GROUP Permission_GranteeType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativeai_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativeai_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```



```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,

```

```

0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59,
0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
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0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
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0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42,
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0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
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0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
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0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
(Permission_GrantType)(0),
// 0: google.ai.generativelanguage.v1beta.Permission.GrantType
(Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
(*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

    },
    GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
  }.Build()
  File_google_ai_generativelanguage_v1beta_permission_proto = out.File
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
  file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
  = nil
  file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

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/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    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 := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }

```

```

}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
}
for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}

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// versions:
// protoc-gen-go v1.35.2
// protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    reflect "reflect"
    sync
    "sync"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

```

```

// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativeai.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativeai_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativeai_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativeai_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```



```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,

```

```

0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescZIP() []byte {
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
(Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
(Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
(*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

},
GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
EnumInfos:    file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

```

1.511 s2a-go 0.1.9

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1.517 cwm-cwm-x24-services-common-abstract 2.0.0

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  "dest": "../../../dist/cwm/admin",
  "lib": {
    "entryFile": "public-api.ts"
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}

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  }
}
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  ],
  "lib": {
    "entryFile": "src/public-api.ts"
  },
  "allowedNonPeerDependencies": [
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  ]
}

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1.518 go-jose 4.0.2

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1.519 distlib 0.3.9

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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distlib has started off using some of the code from distutil2.

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Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad DeLong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
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- Tshepang Lekhonkhobe
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- Hugo Lopes Tavares
- Guillermo Lpez-Anglada
- Justin Love

- Simon Mathieu
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1.521 supervisor 4.2.5

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1.522 x-oauth2 0.23.0

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1.524 prometheus-client 1.12.1

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1.531 google-api-go-client 0.220.0

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1.532 mime-type 1.4.8

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1.533 otel-sdk-metric 0.34.0

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1.534 bzick-tokenizer 1.4.0

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1.535 x-text 0.14.0

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1.536 thrift 0.20.0

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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
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  2015-05-02
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  */
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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 */
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
```

```
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//
////////////////////////////////////
```

Codegen template
in t_html_generator.h

```
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*
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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

```
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* Copyright (c) 2006- Facebook
```

1.537 otel-trace 1.11.2

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*/

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//
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```

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1.540 otel-exporters-otlp-otlptrace-otlptracegrpc 1.34.0

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1.546 go.temporal.io-sdk 1.21.1

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1.547 utmps 0.1.2.3-r2

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1.548 otel-trace 1.34.0

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1.549 go-metrics 0.5.4

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1.550 nexus-rpc-sdk-go 0.1.0

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1.551 go-grpc-middleware 1.4.0

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1.552 zlib 1.3.1-r2

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1.553 x-sync 0.10.0

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1.554 go.uber.org/atomi 1.10.0

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1.555 google-api-go-client 0.182.0

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1.556 go-yaml 2.4.0

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1.557 stdr 1.2.2

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1.558 json-iterator-go 1.1.12

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1.560 gogo-protobuf 1.3.2

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1.563 xxhash 2.3.0

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1.564 masterminds-semver 1.5.0

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1.565 objx 0.5.2

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1.566 testify 1.10.0

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1.567 benbjohnson-clock 1.3.0

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1.568 klauspost-compress 1.17.9

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1.569 aws-sdk-go 1.55.6

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```
{
  "version": "2.0",
  "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
  "operations": {
    "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note><p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href='\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
    "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
    "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
    "ListIdentityProviders":
      "<p>Lists the identity providers for user-based subscriptions.</p>",
    "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
    "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
    "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
    "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
    "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href='\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
    "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
    "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
  }
}
```

```

},
"shapes": {
  "AccessDeniedException": {
    "base": "<p>You don't have sufficient access to perform this action.</p>",
    "refs": {
    }
  },
  "ActiveDirectoryIdentityProvider": {
    "base": "<p>Details about an Active Directory identity provider.</p>",
    "refs": {
      "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity
provider.</p>"
    }
  },
  "AssociateUserRequest": {
    "base": null,
    "refs": {
    }
  },
  "AssociateUserResponse": {
    "base": null,
    "refs": {
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListIdentityProvidersRequest$MaxResults":
"<p>Maximum number of results to return in a single call.</p>",
      "ListInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListProductSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
      "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "ConflictException": {
    "base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
    "refs": {
    }
  },
  "DeregisterIdentityProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterIdentityProviderResponse": {
    "base": null,
    "refs": {
    }
  }
}

```

```

    }
  },
  "DisassociateUserRequest": {
    "base": null,
    "refs": {
    }
  },
  "DisassociateUserResponse": {
    "base": null,
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used
to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results to those that
match one or more sets of key-value pairs that you specify.</p>",
      "ListProductSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value pairs that you specify.</p>",
      "ListUserAssociationsRequest$Filters": "<p>An array of structures that you can use to filter the results to those
that match one or more sets of key-value pairs that you specify.</p>"
    }
  },
  "IdentityProvider": {
    "base": "<p>Details about an identity provider.</p>",
    "refs": {
      "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
      "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
      "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
      "RegisterIdentityProviderRequest$IdentityProvider":

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"<p>An object that specifies details for the identity provider.</p>",
  "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
  "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
},
  "IdentityProviderSummary": {
    "base": "<p>Describes an identity provider.</p>",
    "refs": {
      "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
      "IdentityProviderSummaryList$member": null,
      "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
      "UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null
    }
  },
  "IdentityProviderSummaryList": {
    "base": null,
    "refs": {
      "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata that describes the list identity
providers operation.</p>"
    }
  },
  "InstanceSummary": {
    "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "InstanceSummaryList$member": null
    }
  },
  "InstanceSummaryList": {
    "base": null,
    "refs": {
      "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
    }
  },
  "InstanceUserSummary": {
    "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
      "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

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    "InstanceUserSummaryList$member": null
  },
  "InstanceUserSummaryList": {
    "base": null,
    "refs": {
      "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
    }
  },
  "InternalServerError": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "ListIdentityProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListIdentityProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListInstancesRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListProductSubscriptionsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListProductSubscriptionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUserAssociationsRequest": {
    "base": null,
    "refs": {

```

```

    }
  },
  "ListUserAssociationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ProductUserSummary": {
    "base": "<p>The summary of the user-based subscription products for a user.</p>",
    "refs": {
      "ProductUserSummaryList$member": null,
      "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>",
      "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>"
    }
  },
  "ProductUserSummaryList": {
    "base": null,
    "refs": {
      "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product subscriptions operation.</p>"
    }
  },
  "RegisterIdentityProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "RegisterIdentityProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "ResourceNotFoundException": {
    "base": "<p>The resource couldn't be found.</p>",
    "refs": {
    }
  },
  "SecurityGroup": {
    "base": null,
    "refs": {
      "Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers.</p>",
      "UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
    }
  }
}

```



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},
"ServiceQuotaExceededException": {
  "base": "<p>The request failed because a service quota is exceeded.</p>",
  "refs": {
  }
},
"Settings": {
  "base": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC.</p>",
  "refs": {
    "IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"
  }
},
"SettingsSubnetsList": {
  "base": null,
  "refs": {
    "Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
  }
},
"StartProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StartProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"String": {
  "base": null,
  "refs": {

```

"AccessDeniedException\$message": null,

"ActiveDirectoryIdentityProvider\$DirectoryId": "<p>The directory ID for an Active Directory identity provider.</p>",

"AssociateUserRequest\$Domain": "<p>The domain name of the user.</p>",

"AssociateUserRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"AssociateUserRequest\$Username": "<p>The user name from the identity provider for the user.</p>",

"ConflictException\$message": null,

"DeregisterIdentityProviderRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"DisassociateUserRequest\$Domain": "<p>The domain name of the user.</p>",

"DisassociateUserRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"DisassociateUserRequest\$Username": "<p>The user name from the identity provider for the user.</p>",

"Filter\$Attribute": "<p>The name of an attribute to use as a filter.</p>",

"Filter\$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",

"Filter\$Value": "<p>Value of the filter.</p>",

"IdentityProviderSummary\$FailureMessage": "<p>The failure message associated with an identity provider.</p>",

"IdentityProviderSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"IdentityProviderSummary\$Status": "<p>The status of an identity provider.</p>",

"InstanceSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceSummary\$LastStatusCheckDate": "<p>The date of the last status check.</p>",

"InstanceSummary\$Status": "<p>The status of an EC2 instance resource.</p>",

"InstanceSummary\$StatusMessage": "<p>The status message for an EC2 instance.</p>",

"InstanceUserSummary\$AssociationDate": "<p>The date a user was associated with an EC2 instance.</p>",

"InstanceUserSummary\$DisassociationDate": "<p>The date a user was disassociated from an EC2 instance.</p>",

"InstanceUserSummary\$Domain": "<p>The domain name of the user.</p>",

"InstanceUserSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceUserSummary\$Status": "<p>The status of a user associated with an EC2 instance.</p>",

"InstanceUserSummary\$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",

"InstanceUserSummary\$Username": "<p>The user name from the identity provider for the user.</p>",

"InternalServerException\$message": null,

"ListIdentityProvidersRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListIdentityProvidersResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ListProductSubscriptionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"ListUserAssociationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

```

"ListUserAssociationsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ProductUserSummary$Domain": "<p>The domain name of the user.</p>",
"ProductUserSummary$Product": "<p>The name of the user-based subscription product.</p>",
"ProductUserSummary$Status": "<p>The status of a product for a user.</p>",
"ProductUserSummary$StatusMessage": "<p>The status
message for a product for a user.</p>",
"ProductUserSummary$SubscriptionEndDate": "<p>The end date of a subscription.</p>",
"ProductUserSummary$SubscriptionStartDate": "<p>The start date of a subscription.</p>",
"ProductUserSummary$Username": "<p>The user name from the identity provider of the user.</p>",
"RegisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StartProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
"StartProductSubscriptionRequest$Username": "<p>The user name from the identity provider of the user.</p>",
"StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StopProductSubscriptionRequest$Product":
"<p>The name of the user-based subscription product.</p>",
"StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": "<p>The name of the user-based subscription
product.</p>",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a
VPC endpoint for products that require connectivity to activation servers.</p>",
"UpdateSettings$RemoveSubnets":
"<p>The ID of one or more subnets to remove.</p>"
}
}

```

```

    },
    "ThrottlingException": {
      "base": "<p>The request was denied because of request throttling. Retry the request.</p>",
      "refs": {
      }
    },
    "UpdateIdentityProviderSettingsRequest": {
      "base": null,
      "refs": {
      }
    },
    "UpdateIdentityProviderSettingsResponse": {
      "base": null,
      "refs": {
      }
    },
    "UpdateSettings": {
      "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
      "refs": {
        "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
      }
    },
    "ValidationException": {
      "base": "<p>A parameter is not valid.</p>",
      "refs": {
      }
    }
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-

```

```

stack, dispatching the request MAY return an error.",
  "type": "Boolean"
},
"UseFIPS": {
  "builtIn": "AWS::UseFIPS",
  "required": true,
  "default": false,
  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
  "type": "Boolean"
},
"Endpoint": {

  "builtIn": "SDK::Endpoint",
  "required": false,
  "documentation": "Override the endpoint used to send this request",
  "type": "String"
}
},
"rules": [
  {
    "conditions": [
      {
        "fn": "aws.partition",
        "argv": [
          {
            "ref": "Region"
          }
        ],
        "assign": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "fn": "parseURL",

```

```

      "argv": [
        {
          "ref": "Endpoint"
        }
      ],
      "assign": "url"
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
          "type": "error"
        },
        {
          "conditions": [],
          "endpoint": {

```

```

        "url": {
            "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
],
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
    {
        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseDualStack"
            },
            true
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            }
                        ]
                    }
                ]
            }
        ]
    }
]
}
]
}

```

```

    },
    "supportsFIPS"
  ]
}
]
},
{
  "fn": "booleanEquals",
  "argv": [
    true,
    {
      "fn": "getAttr",
      "argv": [
        {
          "ref": "PartitionResult"
        },
        "supportsDualStack"
      ]
    }
  ]
}
]
}

],
"type": "tree",
"rules": [
  {
    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
]
},
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
  "type": "error"
}
]
},
{
  "conditions": [
    {

```



```

        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseFIPS"
            },
            true
        ]
    },
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
                }
            ]
        },
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS is enabled but this partition does not support FIPS",
        "type": "error"
    }

```

```

    }
  ]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},

            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    }
  ]
}

```

```

        }
    ]
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
}
{
    "version": "2.0",
    "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>",
    "operations": {
        "DeregisterSubscriptionProvider": "<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account.</p>",
        "GetRegisteredSubscriptionProvider": "<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your account.</p>",
        "GetServiceSettings": "<p>Lists the Linux subscriptions service settings for your account.</p>",
        "ListLinuxSubscriptionInstances": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions.</p>",
        "ListLinuxSubscriptions": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
        "ListRegisteredSubscriptionProviders":
            "<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
        "ListTagsForResource": "<p>List the metadata tags that are assigned to the specified Amazon Web Services resource.</p>",
        "RegisterSubscriptionProvider": "<p>Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription.</p>",
        "TagResource": "<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
        "UntagResource": "<p>Remove one or more metadata tag from the specified Amazon Web Services resource.</p>",
        "UpdateServiceSettings": "<p>Updates the service settings for Linux subscriptions.</p>"
    },

```

```

"shapes": {
  "Boolean": {
    "base": null,
    "refs": {
      "UpdateServiceSettingsRequest$AllowUpdate": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$MaxResults": "<p>The maximum items to return in a request.</p>",
      "ListLinuxSubscriptionsRequest$MaxResults": "<p>The maximum items to return in a request.</p>"
    }
  },
  "BoxLong": {
    "base": null,
    "refs": {
      "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
    }
  },
  "DeregisterSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {

```

"ListLinuxSubscriptionInstancesRequest\$Filters": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify `Region` in the `Name`, with the `contains` operator to list all subscriptions that match a partial string in the `Value`, such as `us-west`.</p> <p>For each filter, you can specify one of the following values for the `Name` key to streamline results:</p> <p> `AccountID` </p> <p>

`AmiID`

- `DualSubscription`
- `InstanceID`
- `InstanceType`
- `ProductCode`
- `Region`
- `Status`
- `UsageOperation`

For each filter, you can use one of the following `Operator` values to define the behavior of the filter:

- `contains`
- `equals`
- `Notequal`

`ListLinuxSubscriptionsRequest$Filters`: "An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of `Subscription` with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name."

The valid names for this filter are:

- `Subscription`

 The valid Operators for this filter are:

- `contains`
- `equals`
- `Notequal`

}

},

"GetRegisteredSubscriptionProviderRequest": {

"base": null,

"refs": {

}

},

"GetRegisteredSubscriptionProviderResponse": {

"base": null,

"refs": {

}

},

"GetServiceSettingsRequest": {

"base": null,

"refs": {

}

},

"GetServiceSettingsResponse": {

"base": null,

"refs": {

}

},

"Instance": {

"base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",

"refs": {

"InstanceList\$member": null

}

},

"InstanceList": {

"base": null,

"refs": {

"ListLinuxSubscriptionInstancesResponse\$Instances": "<p>An array that contains instance objects.</p>"

}

},

```

"InternalServerError": {
  "base": "<p>An exception occurred with the service.</p>",
  "refs": {
  }
},
"LinuxSubscriptionsDiscovery": {
  "base": null,
  "refs": {
    "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>",
    "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery":
"<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
    "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
  }
},
"LinuxSubscriptionsDiscoverySettings": {
  "base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
  "refs": {
    "GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
    "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
    "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
  }
},
"ListLinuxSubscriptionInstancesRequest": {
  "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases.</p>",
  "refs": {
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionInstancesRequest$NextToken": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
  }
},
"ListLinuxSubscriptionInstancesResponse": {
  "base": null,
  "refs": {
  }
},

```

```

"ListLinuxSubscriptionsRequest": {
  "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
  "refs": {
  },
},
"ListLinuxSubscriptionsRequestNextTokenString":
{
  "base": null,
  "refs": {
    "ListLinuxSubscriptionsRequest$NextToken": "<p>A token to specify where to start paginating. This is the
nextToken from a previously truncated response.</p>"
  }
},
"ListLinuxSubscriptionsResponse": {
  "base": null,
  "refs": {
  },
},
"ListRegisteredSubscriptionProvidersRequest": {
  "base": null,
  "refs": {
  },
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
  "base": null,
  "refs": {
    "ListRegisteredSubscriptionProvidersRequest$MaxResults": "<p>The maximum items to return in a
request.</p>"
  }
},
"ListRegisteredSubscriptionProvidersResponse": {
  "base": null,
  "refs": {
  },
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  },
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  },
},
"Operator": {
  "base": null,

```

```

    "refs":
  {
    "Filter$Operator": "<p>An operator for filtering results.</p>"
  },
  "OrganizationIntegration": {
    "base": null,
    "refs": {
      "LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": "<p>Details if you have enabled resource
discovery across your accounts in Organizations.</p>"
    },
  },
  "ProductCodeList": {
    "base": null,
    "refs": {
      "Instance$ProductCode": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
    },
  },
  "RegisterSubscriptionProviderRequest": {
    "base": null,
    "refs": {
  },
  },
  "RegisterSubscriptionProviderResponse": {
    "base": null,
    "refs": {
  },
  },
  "RegisteredSubscriptionProvider": {
    "base": "<p>A third-party provider for operating system
(OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux
subscription provider, License Manager can get subscription data from the registered provider.</p>",
    "refs": {
      "RegisteredSubscriptionProviderList$member": null
    },
  },
  "RegisteredSubscriptionProviderList": {
    "base": null,
    "refs": {
      "ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": "<p>The list of BYOL
registration resources that fit the criteria you specified in the request.</p>"
    },
  },
  "ResourceNotFoundException": {
    "base": "<p>Unable to find the requested Amazon Web Services resource.</p>",
    "refs": {

```



```

    }
  },
  "SecretArn": {
    "base": null,
    "refs": {
      "GetRegisteredSubscriptionProviderResponse$SecretArn": "<p>The Amazon Resource Name (ARN) of the
third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the
request.</p>",
      "RegisterSubscriptionProviderRequest$SecretArn": "<p>The Amazon Resource Name (ARN) of the secret
where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red
Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>",
      "RegisteredSubscriptionProvider$SecretArn": "<p>The Amazon Resource Name (ARN) of the Secrets Manager
secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is
the offline token.</p>"
    }
  },
  "Status": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>",
      "UpdateServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
    }
  },
  "String": {
    "base": null,
    "refs": {
      "Filter$Name": "<p>The type of name to filter by.</p>",
      "GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": "<p>The timestamp from
the last time License Manager retrieved subscription details from your registered third-party Linux subscription
provider.</p>",
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": "<p>The detailed message
from your subscription provider token status.</p>",
      "Instance$AccountID": "<p>The account ID which owns the instance.</p>",
      "Instance$AmiId": "<p>The AMI ID used to launch the instance.</p>",
      "Instance$DualSubscription": "<p>Indicates that you have two different license subscriptions for the same
software on your instance.</p>",
      "Instance$InstanceID": "<p>The instance ID of the resource.</p>",
      "Instance$InstanceType": "<p>The instance type of the resource.</p>",
      "Instance$LastUpdatedTime": "<p>The time in which the last discovery updated the instance details.</p>",
      "Instance$OsVersion":
        "<p>The operating system software version that runs on your instance.</p>",
      "Instance$Region": "<p>The Region the instance is running in.</p>",
      "Instance$RegisteredWithSubscriptionProvider": "<p>Indicates that your instance uses a BYOL license
subscription from a third-party Linux subscription provider that you've registered with License Manager.</p>",
      "Instance$Status": "<p>The status of the instance.</p>",
      "Instance$SubscriptionName": "<p>The name of the license subscription that the instance uses.</p>"
    }
  }
}

```

"Instance\$SubscriptionProviderCreateTime": "<p>The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses.</p>",

"Instance\$SubscriptionProviderUpdateTime": "<p>The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider.</p>",

"Instance\$UsageOperation": "<p>The usage operation of the instance. For more information, see [For more information, see \[https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\]\(\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\"\)](\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\") in the *License Manager User Guide*.</p>",

"InternalServerException\$message": null,

"ListLinuxSubscriptionInstancesResponse\$NextToken": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>",

"ListLinuxSubscriptionsResponse\$NextToken": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>",

"ListRegisteredSubscriptionProvidersRequest\$NextToken": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>",

"ListRegisteredSubscriptionProvidersResponse\$NextToken": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>",

"ProductCodeList\$member": null,

"RegisterSubscriptionProviderResponse\$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>",

"RegisteredSubscriptionProvider\$LastSuccessfulDataRetrievalTime": "<p>The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderStatusMessage": "<p>A detailed message that's associated with your BYOL subscription provider token status.</p>",

"ResourceNotFoundException\$message": null,

"StringMap\$key": null,

"StringMap\$value": null,

"Subscription\$Name": "<p>The name of the subscription.</p>",

"Subscription\$Type": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>",

"TagKeyList\$member": null,

"Tags\$key": null,

"Tags\$value": null,

"ThrottlingException\$message": null,

"ValidationException\$message": null

}

},

"StringList": {

"base": null,

"refs": {

```

    "Filter$Values": "<p>One or more values for the name to filter by.</p>",
    "GetServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the
aggregated data for Linux subscriptions.</p>",
    "LinuxSubscriptionsDiscoverySettings$SourceRegions":
"<p>The Regions in which to discover data for Linux subscriptions.</p>",
    "UpdateServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the
aggregated data for Linux subscriptions.</p>"
  }
},
"StringListMemberString": {
  "base": null,
  "refs": {
    "StringList$member": null
  }
},
"StringMap": {
  "base": null,
  "refs": {
    "GetServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service
settings current status.</p>",
    "UpdateServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions
service settings current status.</p>"
  }
},
"Subscription": {
  "base": "<p>An object which details a discovered Linux subscription.</p>",
  "refs": {
    "SubscriptionList$member": null
  }
},
"SubscriptionList": {
  "base": null,
  "refs": {
    "ListLinuxSubscriptionsResponse$Subscriptions":
"<p>An array that contains subscription objects.</p>"
  }
},
"SubscriptionProviderArn": {
  "base": null,
  "refs": {
    "DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN)
of the subscription provider resource to deregister.</p>",
    "GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name
(ARN) of the BYOL registration resource to get details for.</p>",
    "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": "<p>The Amazon Resource Name
(ARN) for the BYOL registration resource specified in the request.</p>",
    "ListTagsForResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the resource for
which to list metadata tags.</p>"
  }
}

```

"RegisteredSubscriptionProvider\$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>",

"TagResourceRequest\$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags.</p>",

"UntagResourceRequest\$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from.</p>"

}

},

"SubscriptionProviderSource": {

"base": null,

"refs": {

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderSource": "<p>The subscription provider for the BYOL registration resource specified in the request.</p>",

"RegisterSubscriptionProviderRequest\$SubscriptionProviderSource": "<p>The supported Linux subscription provider to register.</p>",

"RegisterSubscriptionProviderResponse\$SubscriptionProviderSource": "<p>The Linux subscription provider that you registered.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderSource": "<p>A supported third-party Linux subscription provider. License Manager currently supports Red Hat subscriptions.</p>",

"SubscriptionProviderSourceList\$member": null

}

},

"SubscriptionProviderSourceList": {

"base": null,

"refs": {

"ListRegisteredSubscriptionProvidersRequest\$SubscriptionProviderSources": "<p>To filter your results, specify which subscription providers to return in the list.</p>"

}

},

"SubscriptionProviderStatus": {

"base": null,

"refs": {

"GetRegisteredSubscriptionProviderResponse\$SubscriptionProviderStatus": "<p>The status of the Linux subscription provider access token from the last successful subscription data request.</p>",

"RegisterSubscriptionProviderResponse\$SubscriptionProviderStatus": "<p>Indicates the status of the registration action for the Linux subscription provider that you requested.</p>",

"RegisteredSubscriptionProvider\$SubscriptionProviderStatus": "<p>Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token.</p>"

}

},

"TagKeyList": {

"base": null,

"refs": {

"UntagResourceRequest\$tagKeys": "<p>A list of metadata tag keys to remove from the requested resource.</p>"

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    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
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    "refs": {
    }
  },
  "Tags": {
    "base": null,
    "refs": {
      "ListTagsForResourceResponse$tags": "<p>The metadata tags for the requested resource.</p>",
      "RegisterSubscriptionProviderRequest$Tags": "<p>The metadata tags to assign to your registered Linux
subscription provider resource.</p>",
      "TagResourceRequest$tags": "<p>The metadata tags to assign to the Amazon Web Services resource. Tags are
formatted as key value pairs.</p>"
    }
  },
  "ThrottlingException": {
    "base": "<p>The request was denied due to request throttling.</p>",
    "refs": {
    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
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    "refs": {
    }
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  "UpdateServiceSettingsResponse": {
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    }
  },
  "ValidationException": {

```

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"base": "<p>The provided input is not valid. Try your request again.</p>",
"refs": {
}
}
}
}
AWS SDK for Go
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{
  "testCases": [
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and DualStack enabled",
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    },

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        "UseDualStack": true
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        "Region": "us-west-1",
        "UseDualStack": false
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        }
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        "Region": "us-west-2",
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}

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    "UseDualStack": true
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  },
  "params": {
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  "expect": {
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  "params": {
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"UseDualStack": true
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    "UseDualStack": false
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  "params": {
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    "Region": "eu-north-1",
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      "UseDualStack": false
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    "expect": {
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      }
    },
    "params": {
      "UseFIPS": true,

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        "Region": "me-south-1",
        "UseDualStack": true
    },
    {
        "documentation": "For region me-south-1 with FIPS enabled and DualStack disabled",
        "expect": {
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            }
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        "params": {
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            "Region": "me-south-1",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region me-south-1 with FIPS disabled and DualStack enabled",
        "expect": {
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            }
        },
        "params": {
            "UseFIPS": false,
            "Region": "me-south-1",
            "UseDualStack": true
        }
    },
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        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
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                "url": "https://license-manager-user-subscriptions.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "Region": "me-south-1",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region sa-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {

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        "url": "https://license-manager-user-subscriptions-fips.sa-east-1.api.aws"
    },
    "params": {
        "UseFIPS": true,
        "Region": "sa-east-1",
        "UseDualStack": true
    },
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        "documentation": "For region sa-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.sa-east-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": true,
            "Region": "sa-east-1",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For
region sa-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.sa-east-1.api.aws"
            }
        },
        "params": {
            "UseFIPS": false,
            "Region": "sa-east-1",
            "UseDualStack": true
        }
    },
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        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
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            }
        },
        "params": {
            "UseFIPS": false,
            "Region": "sa-east-1",
            "UseDualStack": false
        }
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    },
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        "Region": "ap-east-1",
        "UseDualStack": true
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      "documentation": "For region ap-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
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        }
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      "params": {
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        "Region": "ap-east-1",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
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        }
      }
    },
    {
      "params": {
        "UseFIPS": false,
        "Region": "ap-east-1",
        "UseDualStack": true
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    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
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        "endpoint": {
          "url": "https://license-manager-user-subscriptions.ap-east-1.amazonaws.com"
        }
      },
    }

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      "Region": "ap-east-1",
      "UseDualStack": false
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      }
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    "params": {
      "UseFIPS": true,
      "Region":
"ap-southeast-1",
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region ap-southeast-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.ap-southeast-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "Region": "ap-southeast-1",
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.ap-southeast-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": false,
      "Region": "ap-southeast-1",
      "UseDualStack": true
    }
  },
  {

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"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager-user-subscriptions.ap-southeast-1.amazonaws.com"
  }
},
"params": {
  "UseFIPS": false,
  "Region": "ap-southeast-1",
  "UseDualStack": false
}
},
{
  "documentation": "For region ap-southeast-2 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.ap-southeast-2.api.aws"
    }
  },
  "params": {
    "UseFIPS": true,
    "Region": "ap-southeast-2",
    "UseDualStack": true
  }
},
{
  "documentation": "For region ap-southeast-2 with FIPS
enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.ap-southeast-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "Region": "ap-southeast-2",
    "UseDualStack": false
  }
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  "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack enabled",
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    "endpoint": {
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    }
  },
  "params": {
    "UseFIPS": false,

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            }
        },
        "params": {
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            "Region": "ap-southeast-2",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
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            }
        },
        "params": {
            "UseFIPS": true,
            "Region": "us-east-1",
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": true,
            "Region": "us-east-1",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {

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        "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
    },
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        "UseFIPS": false,
        "Region": "us-east-1",
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,

"Region": "us-east-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-2 with FIPS enabled and DualStack enabled",
    "expect": {
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            "url": "https://license-manager-user-subscriptions-fips.us-east-2.api.aws"
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    },
    "params": {
        "UseFIPS": true,
        "Region": "us-east-2",
        "UseDualStack": true
    }
},
{
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        }
    },
    "params": {
        "UseFIPS": true,
        "Region": "us-east-2",
        "UseDualStack": false
    }
}

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    },
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      "expect": {
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        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "us-east-2",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
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        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "us-east-2",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "us-east-1",
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
    },

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```

    "params": {
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      "Region": "us-east-1",
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
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  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    }
  },
  {
    "params": {
      "UseFIPS": false,
      "Region": "us-east-1",
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  }
],
"version": "1.0"
}
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-08-01",
    "endpointPrefix": "license-manager",
    "jsonVersion": "1.1",
    "protocol": "json",
    "serviceFullName": "AWS License Manager",
    "serviceId": "License Manager",
    "signatureVersion": "v4",
    "targetPrefix": "AWSLicenseManager",
    "uid": "license-manager-2018-08-01"
  },
  "operations": {
    "AcceptGrant": {
      "name": "AcceptGrant",
      "http": {
        "method": "POST",
        "requestUri": "/"
      },
      "input": { "shape": "AcceptGrantRequest" },
      "output": { "shape": "AcceptGrantResponse" },
      "errors": [
        { "shape": "ValidationException" },
        { "shape": "InvalidParameterValueException" },

```

```

    {"shape": "AuthorizationException"},
    {"shape": "AccessDeniedException"},
    {"shape": "RateLimitExceededException"},
    {"shape": "ResourceLimitExceededException"},
    {"shape": "ServerInternalException"}
  ],
},
"CheckInLicense": {
  "name": "CheckInLicense",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": {"shape": "CheckInLicenseRequest"},
  "output": {"shape": "CheckInLicenseResponse"},
  "errors": [
    {"shape": "ValidationException"},
    {"shape": "InvalidParameterValueException"},
    {"shape": "ResourceNotFoundException"},
    {"shape": "ConflictException"},
    {"shape": "AuthorizationException"},
    {"shape": "AccessDeniedException"},
    {"shape": "RateLimitExceededException"},
    {"shape": "ServerInternalException"}
  ]
},
"CheckoutBorrowLicense": {
  "name": "CheckoutBorrowLicense",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": {"shape": "CheckoutBorrowLicenseRequest"},
  "output": {"shape": "CheckoutBorrowLicenseResponse"},
  "errors": [
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    {"shape": "NoEntitlementsAllowedException"},
    {"shape": "EntitlementNotAllowedException"},
    {"shape": "UnsupportedDigitalSignatureMethodException"},
    {"shape": "RedirectException"},
    {"shape": "AuthorizationException"},
    {"shape": "AccessDeniedException"},
    {"shape": "RateLimitExceededException"},
    {"shape": "ServerInternalException"}
  ]
},

```

```

"CheckoutLicense":{
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  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"CheckoutLicenseRequest"},
  "output":{"shape":"CheckoutLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"NoEntitlementsAllowedException"},
    {"shape":"UnsupportedDigitalSignatureMethodException"},
    {"shape":"RedirectException"},
    {"shape":"AuthorizationException"},
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    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"CreateGrant":{
  "name":"CreateGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateGrantRequest"},
  "output":{"shape":"CreateGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"}
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  "name":"CreateGrantVersion",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateGrantVersionRequest"},
  "output":{"shape":"CreateGrantVersionResponse"},
  "errors":[

```



```

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    {"shape": "InvalidParameterValueException"},
    {"shape": "ResourceLimitExceededException"},
    {"shape": "ServerInternalException"},
    {"shape": "AuthorizationException"},
    {"shape": "AccessDeniedException"},
    {"shape": "RateLimitExceededException"}
  ]
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"CreateLicense": {
  "name": "CreateLicense",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
  "input": {"shape": "CreateLicenseRequest"},
  "output": {"shape": "CreateLicenseResponse"},
  "errors": [
    {"shape": "ValidationException"},
    {"shape": "InvalidParameterValueException"},
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    {"shape": "RateLimitExceededException"},
    {"shape": "ServerInternalException"}
  ]
},
"CreateLicenseConfiguration": {
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  "http": {
    "method": "POST",
    "requestUri": "/"
  },
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  "output": {"shape": "CreateLicenseConfigurationResponse"},
  "errors": [
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    {"shape": "RateLimitExceededException"}
  ]
},
"CreateLicenseConversionTaskForResource": {
  "name": "CreateLicenseConversionTaskForResource",
  "http": {

```

```

    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
  "output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
  "errors":[
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    {"shape":"ValidationException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"CreateLicenseManagerReportGenerator":{
  "name":"CreateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"CreateLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
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"CreateLicenseVersion":{
  "name":"CreateLicenseVersion",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "errors":[
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    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"},
    {"shape":"ConflictException"},
    {"shape":"ServerInternalException"},

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```

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    {"shape":"RateLimitExceededException"}
  ]
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  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ]
},
"DeleteGrant":{
  "name":"DeleteGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteGrantRequest"},
  "output":{"shape":"DeleteGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"DeleteLicense":{
  "name":"DeleteLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseRequest"},

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```

"output":{"shape":"DeleteLicenseResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"RedirectException"},
  {"shape":"ConflictException"},

  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"DeleteLicenseConfiguration":{"
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  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseConfigurationRequest"},
  "output":{"shape":"DeleteLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"DeleteLicenseManagerReportGenerator":{"
  "name":"DeleteLicenseManagerReportGenerator",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"DeleteLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},

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"DeleteToken":{
  "name":"DeleteToken",
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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteTokenRequest"},
  "output":{"shape":"DeleteTokenResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ]
},
"ExtendLicenseConsumption":{
  "name":"ExtendLicenseConsumption",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"ExtendLicenseConsumptionRequest"},
  "output":{"shape":"ExtendLicenseConsumptionResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"}
  ]
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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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{"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"GetGrant":{
  "name":"GetGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"GetGrantRequest"},
  "output":{"shape":"GetGrantResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
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  "name":"GetLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseRequest"},
  "output":{"shape":"GetLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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"GetLicenseConfiguration":{
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  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},

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  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
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  "http":{
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  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseManagerReportGenerator":{
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  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
    "requestUri":"/"
  }
}

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```

    },
    "input":{"shape":"GetLicenseUsageRequest"},
    "output":{"shape":"GetLicenseUsageResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ]
  },
  "GetServiceSettings":{
    "name":"GetServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"GetServiceSettingsRequest"},
    "output":{"shape":"GetServiceSettingsResponse"},
    "errors":[
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListAssociationsForLicenseConfiguration":{
    "name":"ListAssociationsForLicenseConfiguration",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
    "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"FilterLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListDistributedGrants":{
    "name":"ListDistributedGrants",
    "http":{
      "method":"POST",

```



```

    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConversionTasks":{

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```

"name":"ListLicenseConversionTasks",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListLicenseManagerReportGenerators":{"
  "name":"ListLicenseManagerReportGenerators",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{"
  "name":"ListLicenseSpecificationsForResource",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
}

```

```

    ]
  },
  "ListLicenseVersions":{
    "name":"ListLicenseVersions",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListLicenseVersionsRequest"},
    "output":{"shape":"ListLicenseVersionsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ]
  },
  "ListLicenses":{
    "name":"ListLicenses",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListLicensesRequest"},
    "output":{"shape":"ListLicensesResponse"},
    "errors":[
      {"shape":"ValidationException"},

      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ]
  },
  "ListReceivedGrants":{
    "name":"ListReceivedGrants",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListReceivedGrantsRequest"},
    "output":{"shape":"ListReceivedGrantsResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},

```

```

        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
},
"ListReceivedGrantsForOrganization":{
    "name":"ListReceivedGrantsForOrganization",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
    "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
    "errors":[
        {"shape":"ValidationException"},
        {"shape":"InvalidParameterValueException"},
        {"shape":"ResourceLimitExceededException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
},
"ListReceivedLicenses":{
    "name":"ListReceivedLicenses",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"ListReceivedLicensesRequest"},
    "output":{"shape":"ListReceivedLicensesResponse"},
    "errors":[
        {"shape":"ValidationException"},
        {"shape":"InvalidParameterValueException"},
        {"shape":"ResourceLimitExceededException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
},
"ListReceivedLicensesForOrganization":{
    "name":"ListReceivedLicensesForOrganization",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },

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"input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListResourceInventory":{"
  "name":"ListResourceInventory",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTagsForResource":{"
  "name":"ListTagsForResource",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{"
  "name":"ListTokens",

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"http":{
  "method":"POST",

"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
}

```

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    ],
  },
  "TagResource": {
    "name": "TagResource",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
  },
  "input": { "shape": "TagResourceRequest" },
  "output": { "shape": "TagResourceResponse" },
  "errors": [
    { "shape": "InvalidParameterValueException" },
    { "shape": "ServerInternalException" },
    { "shape": "AuthorizationException" },
    { "shape": "AccessDeniedException" },
    { "shape": "RateLimitExceededException" }
  ]
},
"UntagResource": {
  "name": "UntagResource",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
},
"input": { "shape": "UntagResourceRequest" },
"output": { "shape": "UntagResourceResponse" },
"errors": [
  { "shape": "InvalidParameterValueException" },
  { "shape": "ServerInternalException" },
  { "shape": "AuthorizationException" },
  { "shape": "AccessDeniedException" },
  { "shape": "RateLimitExceededException" }
]
},
"UpdateLicenseConfiguration": {
  "name": "UpdateLicenseConfiguration",
  "http": {
    "method": "POST",
    "requestUri": "/"
  },
},
"input": { "shape": "UpdateLicenseConfigurationRequest" },
"output": { "shape": "UpdateLicenseConfigurationResponse" },
"errors": [
  { "shape": "InvalidParameterValueException" },
  { "shape": "ServerInternalException" },
  { "shape": "AuthorizationException" },
  { "shape": "AccessDeniedException" },

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        {"shape":"RateLimitExceededException"},
        {"shape":"ResourceLimitExceededException"}
    ]
},
"UpdateLicenseManagerReportGenerator":{
    "name":"UpdateLicenseManagerReportGenerator",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
    "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
    "errors":[
        {"shape":"ValidationException"},
        {"shape":"InvalidParameterValueException"},
        {"shape":"RateLimitExceededException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"ResourceLimitExceededException"}
    ]
},
"UpdateLicenseSpecificationsForResource":{
    "name":"UpdateLicenseSpecificationsForResource",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
    "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
    "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"InvalidResourceStateException"},
        {"shape":"LicenseUsageException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
},
"UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"InvalidResourceStateException"},
        {"shape":"LicenseUsageException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ]
}
}

```



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"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",

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```

    "ExtendConsumptionLicense",
    "ListPurchasedLicenses",
    "CreateToken"
  ],
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=, @.-]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{"shape":"DateTime"}
  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},

```

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"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{"
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{"
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{"
  "type":"structure",
  "members":{"
  }
},
"CheckoutBorrowLicenseRequest":{"
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
    "NodeId":{"shape":"String"},
    "CheckoutMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CheckoutBorrowLicenseResponse":{"
  "type":"structure",
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "NodeId":{"shape":"String"},
    "SignedToken":{"shape":"SignedToken"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "CheckoutMetadata":{"shape":"MetadataList"}
  }
},
"CheckoutLicenseRequest":{"
  "type":"structure",
  "required":[

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```

    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
  }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",

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"members":{
  "Message":{"shape":"Message"}
},
"exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},

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    "Version":{"shape":"String"}
  }
},
"CreateGrantVersionRequest":{"
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],
  "members":{"
    "ClientToken":{"shape":"ClientToken"},
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"},
    "Status":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "SourceVersion":{"shape":"String"},
    "Options":{"shape":"Options"}
  }
},
"CreateGrantVersionResponse":{"
  "type":"structure",
  "members":{"
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseConfigurationRequest":{"
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{"
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "LicenseRules":{"shape":"StringList"},
    "Tags":{"shape":"TagList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ProductInformationList":{"shape":"ProductInformationList"}
  }
},
"CreateLicenseConfigurationResponse":{"
  "type":"structure",

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```

"members":{
  "LicenseConfigurationArn":{"shape":"String"}
},
"CreateLicenseConversionTaskForResourceRequest":{"
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{"shape":"Arn"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
},
"CreateLicenseConversionTaskForResourceResponse":{"
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"CreateLicenseManagerReportGeneratorRequest":{"
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"CreateLicenseManagerReportGeneratorResponse":{"
  "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},

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```

"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "Entitlements":{"shape":"EntitlementList"},
    "Beneficiary":{"shape":"String"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",

```



```

    "Status",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "Status":{"shape":"LicenseStatus"},
    "ClientToken":{"shape":"ClientToken"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},

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```

    "DateTime":{"type":"timestamp"},
    "DatetimeRange":{
      "type":"structure",
      "required":["Begin"],
      "members":{
        "Begin":{"shape":"ISO8601DateTime"},
        "End":{"shape":"ISO8601DateTime"}
      }
    },
    "DeleteGrantRequest":{
      "type":"structure",
      "required":[
        "GrantArn",
        "Version"
      ],
      "members":{
        "GrantArn":{"shape":"Arn"},
        "StatusReason":{"shape":"StatusReasonMessage"},
        "Version":{"shape":"String"}
      }
    },
    "DeleteGrantResponse":{
      "type":"structure",
      "members":{
        "GrantArn":{"shape":"Arn"},
        "Status":{"shape":"GrantStatus"},
        "Version":{"shape":"String"}
      }
    },
    "DeleteLicenseConfigurationRequest":{
      "type":"structure",
      "required":["LicenseConfigurationArn"],
      "members":{
        "LicenseConfigurationArn":{"shape":"String"}
      }
    },
    "DeleteLicenseConfigurationResponse":{
      "type":"structure",
      "members":{
      }
    },
    "DeleteLicenseManagerReportGeneratorRequest":{
      "type":"structure",
      "required":["LicenseManagerReportGeneratorArn"],
      "members":{
        "LicenseManagerReportGeneratorArn":{"shape":"String"}
      }
    }

```

```

},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "SourceVersion":{"shape":"String"}
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{"shape":"LicenseDeletionStatus"},
    "DeletionDate":{"shape":"ISO8601DateTime"}
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{"shape":"String"}
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{

```

```

    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",

```

```

    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ],
  "EntitlementList":{
    "type":"list",
    "member":{"shape":"Entitlement"}
  },
  "EntitlementNotAllowedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "EntitlementUnit":{
    "type":"string",
    "enum":[
      "Count",
      "None",
      "Seconds",
      "Microseconds",
      "Milliseconds",
      "Bytes",
      "Kilobytes",
      "Megabytes",
      "Gigabytes",
      "Terabytes",

"Bits",
      "Kilobits",
      "Megabits",
      "Gigabits",
      "Terabits",
      "Percent",
      "Bytes/Second",
      "Kilobytes/Second",
      "Megabytes/Second",
      "Gigabytes/Second",
      "Terabytes/Second",
      "Bits/Second",
      "Kilobits/Second",
      "Megabits/Second",

```

```

    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "ConsumedValue":{"shape":"String"},
    "MaxCount":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "DryRun":{"shape":"Boolean"}
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Expiration":{"shape":"ISO8601DateTime"}
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "exception":true
},
"Filter":{
  "type":"structure",

```

```

"members":{
  "Name":{"shape":"FilterName"},
  "Values":{"shape":"FilterValues"}
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},

```

```

"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "Tags":{"shape":"TagList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"GetLicenseConversionTaskRequest":{
  "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"GetLicenseConversionTaskResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},

```



```

    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "StatusMessage":{"shape":"String"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"GetLicenseManagerReportGeneratorRequest":{"
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{"
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"GetLicenseManagerReportGeneratorResponse":{"
  "type":"structure",
  "members":{"
    "ReportGenerator":{"shape":"ReportGenerator"}
  }
},
"GetLicenseRequest":{"
  "type":"structure",
  "required":["LicenseArn"],
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetLicenseResponse":{"
  "type":"structure",
  "members":{"
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{"
  "type":"structure",
  "required":["LicenseArn"],
  "members":{"
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{"
  "type":"structure",
  "members":{"
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},

```

```

"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"},
    "Options":{"shape":"Options"}
  }
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",

```

```

"enum":[
  "PENDING_WORKFLOW",
  "PENDING_ACCEPT",
  "REJECTED",
  "ACTIVE",
  "FAILED_WORKFLOW",
  "DELETED",
  "PENDING_DELETE",
  "DISABLED",
  "WORKFLOW_COMPLETED"
],
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"},
    "ReceivedMetadata":{"shape":"ReceivedMetadata"}
  }
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(?:(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[-+](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
  },
  "Integer":{"type":"integer"},
  "InvalidParameterValueException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    }
  }
}

```

```

    },
    "exception":true,
    "synthetic":true
  },
  "InvalidResourceStateException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "InventoryFilter":{
    "type":"structure",
    "required":[
      "Name",
      "Condition"
    ],
    "members":{
      "Name":{"shape":"String"},
      "Condition":{"shape":"InventoryFilterCondition"},
      "Value":{"shape":"String"}
    }
  },
  "InventoryFilterCondition":{
    "type":"string",
    "enum":[
      "EQUALS",
      "NOT_EQUALS",
      "BEGINS_WITH",
      "CONTAINS"
    ]
  },
  "InventoryFilterList":{
    "type":"list",
    "member":{"shape":"InventoryFilter"}
  },
  "Issuer":{
    "type":"structure",
    "required":["Name"],
    "members":{
      "Name":{"shape":"String"},
      "SignKey":{"shape":"String"}
    }
  },
  "IssuerDetails":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},

```

```

    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
  }
},
"LicenseConfiguration":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{

```

```

    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{"
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{"
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{"
  "type":"structure",
  "members":{"
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{"
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{"
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{"
  "type":"structure",
  "members":{"
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
"LicenseConversionTask":{"
  "type":"structure",
  "members":{"
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},

```

```

    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{"
  "type":"string",
  "max":50,
  "pattern":"^\\lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{"
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{"
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{"
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{"
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{"
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{"

```

```

"type":"structure",
"members":{
  "ResourceArn":{"shape":"String"},
  "ResourceType":{"shape":"ResourceType"},
  "ErrorMessage":{"shape":"String"},
  "FailureTime":{"shape":"DateTime"},
  "OperationName":{"shape":"String"},
  "ResourceOwnerId":{"shape":"String"},
  "OperationRequestedBy":{"shape":"String"},
  "MetadataList":{"shape":"MetadataList"}
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
  }
},
"LicenseUsageException":{
  "type":"structure",

```



```

"members":{
  "Message":{"shape":"Message"}
},
"exception":true
},
>ListAssociationsForLicenseConfigurationRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
>ListAssociationsForLicenseConfigurationResponse":{"
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
>ListDistributedGrantsRequest":{"
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListDistributedGrantsResponse":{"
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
>ListFailuresForLicenseConfigurationOperationsRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
>ListFailuresForLicenseConfigurationOperationsResponse":{"
  "type":"structure",

```

```

    "members":{
      "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseConfigurationsRequest":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArns":{"shape":"StringList"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListLicenseConfigurationsResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurations":{"shape":"LicenseConfigurations"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseConversionTasksRequest":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "Filters":{"shape":"Filters"}
    }
  },
  "ListLicenseConversionTasksResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicenseManagerReportGeneratorsRequest":{
    "type":"structure",
    "members":{
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListLicenseManagerReportGeneratorsResponse":{
    "type":"structure",
    "members":{
      "ReportGenerators":{"shape":"ReportGeneratorList"},

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```

    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicensesResponse":{
  "type":"structure",
  "members":{

```

```

    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesForOrganizationResponse":{
  "type":"structure",
  "members":{

```

```

    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesRequest":{"
  "type":"structure",
  "members":{"
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{"
  "type":"structure",
  "members":{"
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{"
  "type":"structure",
  "members":{"
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{"
  "type":"structure",
  "members":{"
    "ResourceInventoryList":{"shape":"ResourceInventoryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{"
  "type":"structure",
  "members":{"
    "Tags":{"shape":"TagList"}
  }
},

```

```

"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{"shape":"StringList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
    "NextToken":{"shape":"String"}
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",

```

```

    "max":100,
    "min":1
  },
  "MaxSize3StringList":{
    "type":"list",
    "member":{"shape":"String"},
    "max":3
  },
  "Message":{"type":"string"},
  "Metadata":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Value":{"shape":"String"}
    }
  },
  "MetadataList":{
    "type":"list",
    "member":{"shape":"Metadata"}
  },
  "NoEntitlementsAllowedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "Options":{
    "type":"structure",
    "members":{
      "ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
    }
  },
  "OrganizationConfiguration":{
    "type":"structure",
    "required":["EnableIntegration"],
    "members":{
      "EnableIntegration":{"shape":"Boolean"}
    }
  },
  "PrincipalArnList":{
    "type":"list",
    "member":{"shape":"Arn"},
    "max":1,
    "min":1
  },
  "ProductInformation":{
    "type":"structure",

```

```

"required":[
  "ResourceType",
  "ProductInformationFilterList"
],
"members":{
  "ResourceType":{"shape":"String"},
  "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
}
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{"shape":"String"},
    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},

```



```

    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{

```

```

"type":"structure",
"required":["licenseConfigurationArns"],
"members":{
  "licenseConfigurationArns":{"shape":"ArnList"}
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},

```

```

"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
}

```

```

    ]
  },
  "S3Location":{
    "type":"structure",
    "members":{
      "bucket":{"shape":"String"},
      "keyPrefix":{"shape":"String"}
    }
  },
  "ServerInternalException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true,
    "fault":true
  },
  "SignedToken":{
    "type":"string",
    "min":4096
  },
  "StatusReasonMessage":{
    "type":"string",
    "max":400,
    "pattern":"[\\s\\S]+"
  },
  "String":{"type":"string"},
  "StringList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "Tag":{
    "type":"structure",
    "members":{
      "Key":{"shape":"String"},
      "Value":{"shape":"String"}
    }
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "TagList":{
    "type":"list",
    "member":{"shape":"Tag"}
  },
  "TagResourceRequest":{

```

```

    "type": "structure",
    "required": [
        "ResourceArn",
        "Tags"
    ],
    "members": {
        "ResourceArn": { "shape": "String" },
        "Tags": { "shape": "TagList" }
    }
},
"TagResourceResponse": {
    "type": "structure",
    "members": {
    }
},
"TokenData": {
    "type": "structure",
    "members": {
        "TokenId": { "shape": "String" },
        "TokenType": { "shape": "String" },
        "LicenseArn": { "shape": "String" },
        "ExpirationTime": { "shape": "ISO8601DateTime" },
        "TokenProperties": { "shape": "MaxSize3StringList" },
        "RoleArns": { "shape": "ArnList" },
        "Status": { "shape": "String" }
    }
},
"TokenList": {
    "type": "list",
    "member": { "shape": "TokenData" }
},
"TokenString": {
    "type": "string",
    "max": 4096,
    "pattern": "\\S+"
},
"TokenType": {
    "type": "string",
    "enum": [ "REFRESH_TOKEN" ]
},
"UnsupportedDigitalSignatureMethodException": {
    "type": "structure",
    "members": {
        "Message": { "shape": "Message" }
    },
    "exception": true
},
"UntagResourceRequest": {

```

```

"type":"structure",
"required":[
  "ResourceArn",
  "TagKeys"
],
"members":{
  "ResourceArn":{"shape":"String"},
  "TagKeys":{"shape":"TagKeyList"}
}
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},

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    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"},
    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
  }
},
"UpdateLicenseSpecificationsForResourceResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UpdateServiceSettingsRequest":{"
  "type":"structure",
  "members":{"
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
  }
},
"UpdateServiceSettingsResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UsageOperation":{"
  "type":"string",
  "max":50
},
"ValidationException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  }
}

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    },
    "exception":true
  }
}
{
  "version": "2.0",
  "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
  "operations": {
    "AcceptGrant": "<p>Accepts the specified grant.</p>",
    "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
    "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
    "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",
    "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateLicense": "<p>Creates a license.</p>",
    "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",
    "CreateLicenseConversionTaskForResource":
    "<p>Creates a new license conversion task.</p>",
    "CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",
    "CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",
    "CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",
    "DeleteGrant": "<p>Deletes the specified grant.</p>",
    "DeleteLicense": "<p>Deletes the specified license.</p>",
    "DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",
    "DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>",
    "DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",
    "ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",
    "GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",
    "GetGrant": "<p>Gets detailed information about the specified grant.</p>",
    "GetLicense": "<p>Gets detailed information about the specified license.</p>",

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"GetLicenseConfiguration": "<p>Gets detailed information about the specified license configuration.</p>",

"GetLicenseConversionTask": "<p>Gets information about the specified license type conversion task.</p>",

"GetLicenseManagerReportGenerator": "<p>Gets information about the specified report generator.</p>",

"GetLicenseUsage": "<p>Gets detailed information about the usage of the specified license.</p>",

"GetServiceSettings":

<p>Gets the License Manager settings for the current Region.</p>",

"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>",

"ListDistributedGrants": "<p>Lists the grants distributed for the specified license.</p>",

"ListFailuresForLicenseConfigurationOperations": "<p>Lists the license configuration operations that failed.</p>",

"ListLicenseConfigurations": "<p>Lists the license configurations for your account.</p>",

"ListLicenseConversionTasks": "<p>Lists the license type conversion tasks for your account.</p>",

"ListLicenseManagerReportGenerators": "<p>Lists the report generators for your account.</p>",

"ListLicenseSpecificationsForResource": "<p>Describes the license configurations for the specified resource.</p>",

"ListLicenseVersions": "<p>Lists all versions of the specified license.</p>",

"ListLicenses": "<p>Lists the licenses for your account.</p>",

"ListReceivedGrants": "<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>",

"ListReceivedGrantsForOrganization": "<p>Lists the grants received for all accounts in the organization.</p>",

"ListReceivedLicenses": "<p>Lists received licenses.</p>",

"ListReceivedLicensesForOrganization": "<p>Lists the licenses received for all accounts in the organization.</p>",

"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",

"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",

"ListTokens": "<p>Lists your tokens.</p>",

"ListUsageForLicenseConfiguration":

<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",

"RejectGrant": "<p>Rejects the specified grant.</p>",

"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",

"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",

"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",

"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",

"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>",

"UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"

},

"shapes": {

 "AcceptGrantRequest": {

```

"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": "<p>Access to resource denied.</p>",
"refs": {
}
},
"ActivationOverrideBehavior": {
"base": null,
"refs": {
"Options$ActivationOverrideBehavior": "<p>An activation option for your grant that determines the behavior
of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web
Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>
for the <code>Status</code> parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify
an <code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate a grant without
replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p>
</dd> </dl>"
}
},
"AllowedOperation": {
"base": null,
"refs": {
"AllowedOperationList$member": null
}
},
"AllowedOperationList": {
"base": null,
"refs": {
"CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
"CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
"Grant$GrantedOperations": "<p>Granted operations.</p>",
"ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
}
},

```

```

"Arn": {
  "base": null,
  "refs": {
    "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "ArnList$member": null,
    "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The
license must use the borrow consumption configuration.</p>",
    "CheckoutBorrowLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateLicenseConversionTaskForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of
the resource you are converting the license type for.</p>",
    "CreateLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionResponse$LicenseArn": "<p>License ARN.</p>",
    "CreateTokenRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped
to the aud claim of the JWT token.</p>",
    "DeleteGrantRequest$GrantArn":
"<p>Amazon Resource Name (ARN) of the grant.</p>",
    "DeleteGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "DeleteLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "GetLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetLicenseUsageRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "Grant$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "Grant$ParentArn": "<p>Parent ARN.</p>",
    "Grant$LicenseArn": "<p>License ARN.</p>",
    "Grant$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",
    "GrantedLicense$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "License$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "ListLicenseVersionsRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of
the license.</p>",
    "ListReceivedGrantsForOrganizationRequest$LicenseArn": "<p>The Amazon Resource Name (ARN) of the
received license.</p>",
    "PrincipalArnList$member": null,
    "RejectGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "RejectGrantResponse$GrantArn": "<p>Grant ARN.</p>"
  }
},
"ArnList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. License Manager does not check whether the roles are in use.</p>",

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"ListDistributedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
"ListLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
"ListReceivedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
"ListReceivedLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

"ReportContext$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration
that this generator reports on.</p>",
  "TokenData$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
}
},
"AuthorizationException": {
  "base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the
IAM policy associated with this account.</p>",
  "refs": {
  }
},
"AutomatedDiscoveryInformation": {
  "base": "<p>Describes automated discovery.</p>",
  "refs": {
    "GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery
information.</p>",
    "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
  }
},
"Boolean": {
  "base": null,
  "refs": {
    "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the
action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>",
    "OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
  }
},
"BorrowConfiguration": {
  "base": "<p>Details about a borrow configuration.</p>",
  "refs": {
    "ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
  }
},
"BoxBoolean": {
  "base": null,
  "refs": {
    "BorrowConfiguration$AllowEarlyCheckIn": "<p>Indicates whether early check-ins are allowed.</p>",
    "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Indicates whether hard or soft license
enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",
    "CreateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
    "Entitlement$Overage": "<p>Indicates

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whether overages are allowed.</p>",

"Entitlement\$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",

"GetLicenseConfigurationResponse\$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",

"GetLicenseConfigurationResponse\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"GetServiceSettingsResponse\$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account discovery is enabled.</p>",

"LicenseConfiguration\$LicenseCountHardLimit": "<p>Number of available licenses as a hard limit.</p>",

"LicenseConfiguration\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"UpdateLicenseConfigurationRequest\$LicenseCountHardLimit": "<p>New hard limit of the number of available licenses.</p>",

"UpdateLicenseConfigurationRequest\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"UpdateServiceSettingsRequest\$EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"

}

},

"BoxInteger": {

"base": null,

"refs": {

"BorrowConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in minutes.</p>",

"ListAssociationsForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConfigurationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConversionTasksRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseSpecificationsForResourceRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListResourceInventoryRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListUsageForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ProvisionalConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration, in minutes.</p>"

}

},

"BoxLong": {

"base": null,

"refs": {

"ConsumedLicenseSummary\$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",

"CreateLicenseConfigurationRequest\$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",

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    "GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
    "GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
    "LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
    "LicenseConfiguration$ConsumedLicenses":
"<p>Number of licenses consumed. </p>",
    "LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
    "ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
    "UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"
  }
},
"CheckInLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckInLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutType": {
  "base": null,
  "refs": {
    "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
    "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
  }
},

```

```

"ClientRequestToken": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>"
  }
},
"ClientToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to
ensure the idempotency of the request.</p>",
    "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
    "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive
identifier that you provide to ensure the idempotency of the request.</p>",
    "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
the idempotency of the request.</p>",
    "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
    "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
the idempotency of the request.</p>",
    "CreateTokenRequest$ClientToken": "<p>Idempotency token, valid for 10 minutes.</p>"
  }
},
"ConflictException": {
  "base": "<p>There was a conflict processing the request. Try your request again.</p>",
  "refs": {
  }
},
"ConsumedLicenseSummary": {
  "base": "<p>Details about license consumption.</p>",
  "refs": {
    "ConsumedLicenseSummaryList$member": null
  }
},
"ConsumedLicenseSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses
consumed by resources.</p>",
    "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
resources.</p>"
  }
},
"ConsumptionConfiguration": {

```

```

    "base": "<p>Details about a consumption configuration.</p>",
    "refs": {
      "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
      "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the
license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
      "GrantedLicense$ConsumptionConfiguration":
        "<p>Configuration for consumption of the license.</p>",
      "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
    }
  },
  "CreateGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseConversionTaskForResourceRequest": {
    "base": null,
    "refs": {
    }
  },

```



```

"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

  }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateTokenRequest": {
  "base": null,
  "refs": {
  }
},
"CreateTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DateTime": {
  "base": null,

```

```

"refs": {
  "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
  "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was
started .</p>",
  "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license
type conversion.</p>",
  "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was
completed.</p>",
  "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
with the resource.</p>",
  "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially
associated with the resource.</p>",
  "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
  "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource
was changed.</p>",
  "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
  "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
}
},
"DatetimeRange": {
  "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
  "refs": {
    "CreateLicenseRequest$Validity": "<p>Date
and time range during which the license is valid, in ISO8601-UTC format.</p>",
    "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
    "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
    "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  }
},
>DeleteGrantRequest": {
  "base": null,
  "refs": {
  }
},
>DeleteGrantResponse": {
  "base": null,
  "refs": {
  }
},
>DeleteLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
>DeleteLicenseConfigurationResponse": {
  "base": null,

```

```

    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DigitalSignatureMethod": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS) algorithm PS384. For more information, see <a
href='\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
    }
  },
  "Entitlement": {
    "base": "<p>Describes a resource entitled for use with a license.</p>",
    "refs": {
      "EntitlementList$member": null
    }
  },
  "EntitlementData": {

```

```

"base": "<p>Data associated with an entitlement resource.</p>",

"refs": {
  "EntitlementDataList$member": null
},
"EntitlementDataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not supported.</p>",
    "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
    "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
  },
  "EntitlementDataUnit": {
    "base": null,
    "refs": {
      "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
      "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
    },
    "EntitlementList": {
      "base": null,
      "refs": {
        "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
        "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
        "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
        "License$Entitlements": "<p>License entitlements.</p>"
      },
      "EntitlementNotAllowedException": {
        "base": "<p>The entitlement is not allowed.</p>",
        "refs": {
        }
      },
      "EntitlementUnit": {
        "base": null,
        "refs": {
          "Entitlement$Unit": "<p>Entitlement unit.</p>"
        },
        "EntitlementUsage": {
          "base": "<p>Usage associated with an entitlement resource.</p>",
          "refs": {
            "EntitlementUsageList$member": null

```

```

    }
  },
  "EntitlementUsageList": {
    "base": null,
    "refs": {
      "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
    }
  },
  "ExtendLicenseConsumptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "ExtendLicenseConsumptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "FailedDependencyException": {
    "base": "<p>A dependency required to run the API is missing.</p>",
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
    "refs": {
      "FilterList$member": null,
      "Filters$member": null
    }
  },
  "FilterLimitExceededException": {
    "base": "<p>The request uses too many filters or too many filter values.</p>",
    "refs": {
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
      "ListLicenseManagerReportGeneratorsRequest$Filters":
        "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p> <code>LicenseConfigurationArn</code> </p> </li> </ul>",
      "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>

```

<code>Fingerprint</code> </p> <p> <code>Status</code> </p> ",

"ListReceivedGrantsForOrganizationRequest\$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <p> <code>ParentArn</code> </p> <p> <code>GranteePrincipalArn</code> </p> ",

"ListReceivedGrantsRequest\$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <p> <code>ProductSKU</code> </p> <p> <code>LicenseIssuerName</code> </p> <p> <code>LicenseArn</code> </p> <p> <code>GrantStatus</code> </p> <p> <code>GranterAccountId</code> </p> ",

"ListReceivedLicensesForOrganizationRequest\$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <p> <code>Beneficiary</code> </p> <p> <code>ProductSKU</code> </p> ",

"ListReceivedLicensesRequest\$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <p> <code>ProductSKU</code> </p> <p> <code>Status</code> </p> <p> <code>Fingerprint</code> </p> <p> <code>IssuerName</code> </p> <p> <code>Beneficiary</code> </p> ",

"ListTokensRequest\$Filters": "<p>Filters to scope the results. The following filter is supported:</p> <p> <code>LicenseArns</code> </p> "

}

},

"FilterName": {

"base": null,

"refs": {

"Filter\$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"

}

},

"FilterValue": {

"base": null,

"refs": {

"FilterValues\$member": null

}

},

"FilterValues": {

"base": null,

"refs": {

"Filter\$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"

}

},

"Filters": {

"base": null,

"refs": {

"ListLicenseConfigurationsRequest\$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>

 <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
",

"ListLicenseConversionTasksRequest\$Filters": "<p>Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. </p>",

"ListUsageForLicenseConfigurationRequest\$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> "

}

},

"GetAccessTokenRequest": {

"base": null,

"refs": {

}

},

"GetAccessTokenResponse": {

"base": null,

"refs": {

}

},

"GetGrantRequest": {

"base": null,

"refs": {

}

},

"GetGrantResponse": {

"base": null,

"refs": {

}

},

"GetLicenseConfigurationRequest": {

"base": null,

"refs": {

}

},

"GetLicenseConfigurationResponse": {

"base": null,

"refs": {

}

},

"GetLicenseConversionTaskRequest": {

"base": null,

```

    "refs": {
    }
  },
  "GetLicenseConversionTaskResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorResponse": {
    "base":
null,
    "refs": {
    }
  },
  "GetLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  }

```



```

},
"Grant": {
  "base": "<p>Describes a grant.</p>",
  "refs": {
    "GetGrantResponse$Grant": "<p>Grant details.</p>",
    "GrantList$member": null
  }
},
"GrantList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
    "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
    "ListReceivedGrantsResponse$Grants":
"<p>Received grant details.</p>"
  }
},
"GrantStatus": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Status": "<p>Grant status.</p>",
    "CreateGrantResponse$Status": "<p>Grant status.</p>",
    "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
    "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
    "DeleteGrantResponse$Status": "<p>Grant status.</p>",
    "Grant$GrantStatus": "<p>Grant status.</p>",
    "RejectGrantResponse$Status": "<p>Grant status.</p>"
  }
},
"GrantedLicense": {
  "base": "<p>Describes a license that is granted to a grantee.</p>",
  "refs": {
    "GrantedLicenseList$member": null
  }
},
"GrantedLicenseList": {
  "base": null,
  "refs": {
    "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has
received.</p>",
    "ListReceivedLicensesResponse$Licenses": "<p>Received license
details.</p>"
  }
},
"ISO8601DateTime": {
  "base": null,
  "refs": {

```

"CheckoutBorrowLicenseResponse\$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",

"CheckoutBorrowLicenseResponse\$Expiration": "<p>Date and time at which the license checkout expires.</p>",

"CheckoutLicenseResponse\$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",

"CheckoutLicenseResponse\$Expiration": "<p>Date and time at which the license checkout expires.</p>",

"DatetimeRange\$Begin": "<p>Start of the time range.</p>",

"DatetimeRange\$End": "<p>End of the time range.</p>",

"DeleteLicenseResponse\$DeletionDate": "<p>Date when the license is deleted.</p>",

"ExtendLicenseConsumptionResponse\$Expiration": "<p>Date and time at which the license consumption expires.</p>",

"GrantedLicense\$CreateTime": "<p>Creation time of the granted license.</p>",

"License\$CreateTime": "<p>License creation time.</p>",

"TokenData\$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"

}

},

"Integer": {

"base": null,

"refs": {

"CreateTokenRequest\$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>",

"ReportFrequency\$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"

}

},

"InvalidParameterValueException": {

"base": "<p>One or more parameter values are not valid.</p>",

"refs": {

}

},

"InvalidResourceStateException": {

"base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",

"refs": {

}

},

"InventoryFilter": {

"base": "<p>An inventory filter.</p>",

"refs": {

"InventoryFilterList\$member": null

}

},

"InventoryFilterCondition": {

"base": null,

"refs": {

"InventoryFilter\$Condition": "<p>Condition of the filter.</p>"

```

    }
  },
  "InventoryFilterList": {
    "base": null,
    "refs": {
      "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
      "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
      "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
    }
  },
  "IssuerDetails": {
    "base": "<p>Details associated with the issuer of a license.</p>",
    "refs": {
      "GrantedLicense$Issuer": "<p>Granted license issuer.</p>",
      "License$Issuer": "<p>License issuer.</p>"
    }
  },
  "License": {
    "base": "<p>Software license that is managed in License Manager.</p>",
    "refs": {
      "GetLicenseResponse$License": "<p>License details.</p>",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",

```

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"refs": {
  "LicenseConfigurations$member": null
},
"LicenseConfigurationAssociation": {
  "base": "<p>Describes an association with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationAssociations$member": null
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information about the associations for the license configuration.</p>"
    }
  },
  "LicenseConfigurationStatus": {
    "base": null,
    "refs": {
      "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration.</p>"
    }
  },
  "LicenseConfigurationUsage": {
    "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationUsageList$member": null
    }
  },
  "LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
      "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the license configurations.</p>"
    }
  },
  "LicenseConfigurations": {
    "base": null,
    "refs": {
      "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license configurations.</p>"
    }
  },
  "LicenseConversionContext": {
    "base": "<p>Information about a license type conversion task.</p>",
    "refs": {

```

"CreateLicenseConversionTaskForResourceRequest\$SourceLicenseContext": "<p>Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the <i>License Manager User Guide</i>.</p>",

"CreateLicenseConversionTaskForResourceRequest\$DestinationLicenseContext": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see Convert

a license type using the CLI in the <i>License Manager User Guide</i>.</p>",

"GetLicenseConversionTaskResponse\$SourceLicenseContext": "<p>Information about the license type converted from.</p>",

"GetLicenseConversionTaskResponse\$DestinationLicenseContext": "<p>Information about the license type converted to.</p>",

"LicenseConversionTask\$SourceLicenseContext": "<p>Information about the license type this conversion task converted from.</p>",

"LicenseConversionTask\$DestinationLicenseContext": "<p>Information about the license type this conversion task converted to.</p>"

}

},

"LicenseConversionTask": {

"base": "<p>Information about a license type conversion task.</p>",

"refs": {

"LicenseConversionTasks\$member": null

}

},

"LicenseConversionTaskId": {

"base": null,

"refs": {

"CreateLicenseConversionTaskForResourceResponse\$LicenseConversionTaskId":

<p>The ID of the created license type conversion task.</p>",

"GetLicenseConversionTaskRequest\$LicenseConversionTaskId": "<p>ID of the license type conversion task to retrieve information on.</p>",

"GetLicenseConversionTaskResponse\$LicenseConversionTaskId": "<p>ID of the license type conversion task.</p>",

"LicenseConversionTask\$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"

}

},

"LicenseConversionTaskStatus": {

"base": null,

"refs": {

"GetLicenseConversionTaskResponse\$Status": "<p>Status of the license type conversion task.</p>",

"LicenseConversionTask\$Status": "<p>The status of the conversion task.</p>"

}

},

"LicenseConversionTasks": {

"base": null,

"refs": {

"ListLicenseConversionTasksResponse\$LicenseConversionTasks": "<p>Information about the license

configuration tasks for your account.</p>"

```
    }
  },
  "LicenseCountingType":
  {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
inventory.</p>",
      "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
counted.</p>",
      "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>"
    }
  },
  "LicenseDeletionStatus": {
    "base": null,
    "refs": {
      "DeleteLicenseResponse$Status": "<p>License status.</p>"
    }
  },
  "LicenseList": {
    "base": null,
    "refs": {
      "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
      "ListLicensesResponse$Licenses": "<p>License details.</p>"
    }
  },
  "LicenseOperationFailure": {
    "base": "<p>Describes the failure of a license operation.</p>",
    "refs": {
      "LicenseOperationFailureList$member": null
    }
  },
  "LicenseOperationFailureList": {
    "base":
null,
    "refs": {
      "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
    }
  },
  "LicenseSpecification": {
    "base": "<p>Details for associating a license configuration with a resource.</p>",
    "refs": {
      "LicenseSpecifications$member": null
    }
  },
  "LicenseSpecifications": {
```

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    "base": null,
    "refs": {
      "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
    }
  },
  "LicenseStatus": {
    "base": null,
    "refs": {
      "CreateLicenseResponse$Status": "<p>License status.</p>",
      "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
      "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
      "GrantedLicense$Status": "<p>Granted license status.</p>",
      "License$Status": "<p>License status.</p>"
    }
  },
  "LicenseUsage": {
    "base": "<p>Describes the entitlement usage associated with a license.</p>",
    "refs": {
      "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
    }
  },
  "LicenseUsageException": {
    "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsResponse":

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{
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConfigurationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConfigurationsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConversionTasksRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConversionTasksResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseManagerReportGeneratorsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseManagerReportGeneratorsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
}

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    }
  },
  "ListLicenseSpecificationsForResourceResponse": {
    {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseVersionsRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListLicenseVersionsResponse": {
      "base": null,
      "refs": {
        }
      },
    "ListLicensesRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListLicensesResponse": {
      "base": null,
      "refs": {
        }
      },
    "ListReceivedGrantsForOrganizationRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListReceivedGrantsForOrganizationResponse": {
      "base": null,
      "refs": {
        }
      },
    "ListReceivedGrantsRequest": {
      "base": null,
      "refs": {
        }
      },
    "ListReceivedGrantsResponse": {
      "base": null,
      "refs": {
        }
      },
  },

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"ListReceivedLicensesForOrganizationRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesForOrganizationResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesRequest":
{
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
  "base": null,
  "refs": {
  }
},
"ListTokensResponse": {
  "base": null,

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    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long":
{
  "base": null,
  "refs": {
    "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
  }
},
  "ManagedResourceSummary": {
    "base": "<p>Summary information about a managed resource.</p>",
    "refs": {
      "ManagedResourceSummaryList$member": null
    }
  },
  "ManagedResourceSummaryList": {
    "base": null,
    "refs": {
      "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed
resources.</p>",
      "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
    }
  },
  "MaxSize100": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
      "ListLicenseVersionsRequest$MaxResults": "<p>Maximum

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number of results to return in a single call.</p>",
  "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
  "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
  "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
}
},
"MaxSize3StringList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped to the amr claim of the JWT token.</p>",

    "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT
token.</p>",
    "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
  }
},
"Message": {
  "base": null,
  "refs": {
    "AccessDeniedException$Message": null,
    "AuthorizationException$Message": null,
    "ConflictException$Message": null,
    "EntitlementNotAllowedException$Message": null,
    "FailedDependencyException$Message": null,
    "FilterLimitExceededException$Message": null,
    "InvalidParameterValueException$Message": null,
    "InvalidResourceStateException$Message": null,
    "LicenseUsageException$Message": null,
    "NoEntitlementsAllowedException$Message": null,
    "RateLimitExceededException$Message": null,
    "RedirectException$Message": null,
    "ResourceLimitExceededException$Message": null,
    "ResourceNotFoundException$Message": null,
    "ServerInternalException$Message":
null,
    "UnsupportedDigitalSignatureMethodException$Message": null,
    "ValidationException$Message": null
  }
},
"Metadata": {
  "base": "<p>Describes key/value pairs.</p>",
  "refs": {

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    "MetadataList$member": null
  }
},
"MetadataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
    "License$LicenseMetadata": "<p>License metadata.</p>",
    "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
  }
},
"NoEntitlementsAllowedException": {
  "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
  "refs": {
  }
},
"Options": {
  "base": "<p>The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see <a href='\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
  "refs": {
    "CreateGrantVersionRequest$Options": "<p>The options specified for the grant.</p>",
    "Grant$Options": "<p>The options specified for the grant.</p>"
  }
},
"OrganizationConfiguration": {
  "base": "<p>Configuration information for Organizations.</p>",
  "refs": {
    "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>",
    "UpdateServiceSettingsRequest$OrganizationConfiguration":
"<p>Enables integration with Organizations for cross-account discovery.</p>"
  }
},
"PrincipalArnList": {
  "base": null,
  "refs": {
    "CreateGrantRequest$Principals": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts across your organization.</p> </li> </ul>"
  }
}

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    }
  },
  "ProductInformation": {
    "base": "<p>Describes product information for a license configuration.</p>",
    "refs": {
      "ProductInformationList$member": null
    }
  },
  "ProductInformationFilter": {
    "base": "<p>Describes product information filters.</p>",
    "refs": {
      "ProductInformationFilterList$member":
null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p> <p>The following filters and are supported when the
resource type is <code>SSM_MANAGED</code>:</p> <ul> <li> <p> <code>Application Name</code> - The
name of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application
Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p>
</li> <li> <p> <code>Application Version</code> - The version of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Name</code> - The name of the platform. Logical
operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Type</code> - The platform type.
Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Tag:key</code> - The key of a tag
attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key. </p> </li> <li> <p> <code>AccountId</code> - The 12-digit ID of an Amazon
Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>License Included</code> -
The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.
Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-
web</code> | <code>windows-server-datacenter</code>.</p> </li> </ul> <p>The following filters and logical
operators are supported when the resource type is <code>RDS</code>:</p> <ul> <li> <p> <code>Engine
Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values
are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>
</li> <li> <p> <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>.
Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack
sqlt</code> | <code>ols</code> | <code>olap</code>.</p> </li> </ul>"
    }
  },

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"ProductInformationList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$ProductInformationList":
"<p>Product information.</p>",
    "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
    "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
    "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
  }
},
"ProvisionalConfiguration": {
  "base": "<p>Details about a provisional configuration.</p>",
  "refs": {
    "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
  }
},
"RateLimitExceededException": {
  "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
  "refs": {
  }
},
"ReceivedMetadata": {
  "base": "<p>Metadata associated with received licenses and grants.</p>",
  "refs": {
    "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
  }
},
"ReceivedStatus": {
  "base": null,
  "refs": {
    "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
  }
},
"RedirectException": {
  "base": "<p>This is not the correct Region for the resource. Try again.</p>",
  "refs": {
  }
},
"RejectGrantRequest": {
  "base": null,
  "refs": {
  }
},
"RejectGrantResponse": {
  "base": null,
  "refs": {
  }
},

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"RenewType": {
  "base": null,
  "refs": {
    "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
  }
},
"ReportContext": {
  "base": "<p>Details of the license configuration that this generator reports on.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
    "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportContext":
"<p>The report context.</p>"
  }
},
"ReportFrequency": {
  "base": "<p>Details about how frequently reports are generated.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
    "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated.</p>"
  }
},
"ReportFrequencyType": {
  "base": null,
  "refs": {
    "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
  }
},
"ReportGenerator": {
  "base": "<p>Describe the details of a report generator.</p>",
  "refs": {
    "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
"<p>A report generator that creates periodic reports about your license configurations.</p>",
    "ReportGeneratorList$member": null
  }
},
"ReportGeneratorList": {
  "base": null,
  "refs": {
    "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates periodic reports about your license configurations.</p>"
  }
},

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"ReportGeneratorName": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
  }
},
"ReportType": {
  "base": null,
  "refs": {
    "ReportTypeList$member": null
  }
},
"ReportTypeList": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
be generated:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> </li> </ul>",
    "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
  }
},
"ResourceInventory": {
  "base": "<p>Details about a resource.</p>",
  "refs": {
    "ResourceInventoryList$member": null
  }
},
"ResourceInventoryList": {
  "base": null,
  "refs": {
    "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
  }
},
"ResourceLimitExceededException": {
  "base": "<p>Your resource limits have been exceeded.</p>",
  "refs": {
  }
},
"ResourceNotFoundException": {

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"base": "<p>The resource cannot be found.</p>",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",
"LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
"LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
"LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
"ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
"ResourceInventory$ResourceType": "<p>Type of resource.</p>"
}
},
"S3Location": {
"base":
"<p>Details of the S3 bucket that report generator reports are published to.</p>",
"refs": {
"ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
}
},
"ServerInternalException": {
"base": "<p>The server experienced an internal error. Try again.</p>",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
"CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
"DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
"Grant$StatusReason": "<p>Grant status reason.</p>",
"ReceivedMetadata$ReceivedStatusReason": "<p>Received status reason.</p>"
}
},
"String": {
"base": null,
"refs": {

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"AcceptGrantResponse\$Version": "<p>Grant version.</p>",

"CheckInLicenseRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"CheckInLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CheckoutBorrowLicenseRequest\$NodeId": "<p>Node ID.</p>",

"CheckoutBorrowLicenseResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"CheckoutBorrowLicenseResponse\$NodeId": "<p>Node ID.</p>",

"CheckoutLicenseRequest\$ProductSKU": "<p>Product SKU.</p>",

"CheckoutLicenseRequest\$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",

"CheckoutLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CheckoutLicenseRequest\$NodeId": "<p>Node ID.</p>",

"CheckoutLicenseResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"CheckoutLicenseResponse\$NodeId": "<p>Node ID.</p>",

"CheckoutLicenseResponse\$LicenseArn":

<p>Amazon Resource Name (ARN) of the checkout license.</p>",

"CreateGrantRequest\$GrantName": "<p>Grant name.</p>",

"CreateGrantRequest\$HomeRegion": "<p>Home Region of the grant.</p>",

"CreateGrantResponse\$Version": "<p>Grant version.</p>",

"CreateGrantVersionRequest\$GrantName": "<p>Grant name.</p>",

"CreateGrantVersionRequest\$SourceVersion": "<p>Current version of the grant.</p>",

"CreateGrantVersionResponse\$Version": "<p>New version of the grant.</p>",

"CreateLicenseConfigurationRequest\$Name": "<p>Name of the license configuration.</p>",

"CreateLicenseConfigurationRequest\$Description": "<p>Description of the license configuration.</p>",

"CreateLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"CreateLicenseManagerReportGeneratorRequest\$Description": "<p>Description of the report generator.</p>",

"CreateLicenseManagerReportGeneratorResponse\$LicenseManagerReportGeneratorArn":

<p>The Amazon Resource Name (ARN) of the new report generator.</p>",

"CreateLicenseRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseRequest\$ProductSKU": "<p>Product SKU.</p>",

"CreateLicenseRequest\$HomeRegion": "<p>Home Region for the license.</p>",

"CreateLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CreateLicenseResponse\$Version": "<p>License version.</p>",

"CreateLicenseVersionRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseVersionRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseVersionRequest\$HomeRegion": "<p>Home Region of the license.</p>",

"CreateLicenseVersionRequest\$SourceVersion": "<p>Current version of the license.</p>",

"CreateLicenseVersionResponse\$Version": "<p>New version of the license.</p>",

"CreateTokenResponse\$TokenId":

<p>Token ID.</p>",

"DeleteGrantRequest\$Version": "<p>Current version of the grant.</p>",

"DeleteGrantResponse\$Version": "<p>Grant version.</p>",

"DeleteLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",

"DeleteLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name": "<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue":

<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",

"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey": "

Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.

",

"IssuerDetails\$Name": "

Issuer name.

",

"IssuerDetails\$SignKey": "

Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.

",

"IssuerDetails\$KeyFingerprint": "

Issuer key fingerprint.

",

"License\$LicenseName": "

License name.

",

"License\$ProductName": "

Product name.

",

"License\$ProductSKU": "

Product SKU.

",

"License\$HomeRegion": "

Home Region of the license.

",

"License\$Beneficiary": "

License beneficiary.

",

"License\$Version": "

License version.

",

"LicenseConfiguration\$LicenseConfigurationId": "

Unique ID of the license configuration.

",

"LicenseConfiguration\$LicenseConfigurationArn": "

Amazon Resource Name (ARN) of the license configuration.

",

"LicenseConfiguration\$Name": "

Name of the license configuration.

",

"LicenseConfiguration\$Description": "

Description of the license configuration.

",

"LicenseConfiguration\$Status": "

Status of the license configuration.

",

"LicenseConfiguration\$OwnerAccountId": "

Account ID of the license configuration's owner.

",

"LicenseConfigurationAssociation\$ResourceArn": "

Amazon Resource Name (ARN) of the resource.

",

"LicenseConfigurationAssociation\$ResourceOwnerId": "

ID of the Amazon Web Services account that owns the resource consuming licenses.

",

"LicenseConfigurationAssociation\$AmiAssociationScope": "

Scope of AMI associations. The possible value is `cross-account`.

",

"LicenseConfigurationUsage\$ResourceArn": "

Amazon Resource Name (ARN) of the resource.

",

"LicenseConfigurationUsage\$ResourceStatus": "

Status of the resource.

",

"LicenseConfigurationUsage\$ResourceOwnerId": "

ID of the account that owns the resource.

",

"LicenseConversionTask\$ResourceArn": "

The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.

",

"LicenseConversionTask\$StatusMessage": "

The status message for the conversion task.

",

"LicenseOperationFailure\$ResourceArn": "

Amazon Resource Name (ARN) of the resource.

",

"LicenseOperationFailure\$ErrorMessage": "

Error message.

",

"LicenseOperationFailure\$OperationName": "

Name of the operation.

",

"LicenseOperationFailure\$ResourceOwnerId": "

ID of the Amazon Web Services account that owns the resource.

",

"LicenseOperationFailure\$OperationRequestedBy": "

The requester is \"License Manager Automated Discovery\".

",

"LicenseSpecification\$LicenseConfigurationArn": "

Amazon Resource Name (ARN) of the license configuration.

",

"LicenseSpecification\$AmiAssociationScope": "

Scope of AMI associations. The possible value is `cross-account`.

",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "

Amazon Resource Name (ARN) of a license configuration.

",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "

Token for the next set of results.

",

"ListAssociationsForLicenseConfigurationResponse\$NextToken": "

Token for the next set of results.

",

"ListDistributedGrantsRequest\$NextToken": "

Token for the next set of results.

",

"ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesForOrganizationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"MaxSize3StringList\$member": null,

"Metadata\$Name": "<p>The key name.</p>",

"Metadata\$Value": "<p>The value.</p>",

"ProductInformation\$ResourceType": "<p>Resource type. The possible values are `SSM_MANAGED` | `RDS`.</p>",

"ProductInformationFilter\$ProductInformationFilterName": "<p>Filter name.</p>",

"ProductInformationFilter\$ProductInformationFilterComparator": "<p>Logical operator.</p>",

```

"RejectGrantResponse$Version": "<p>Grant version.</p>",
"ReportGenerator$ReportGeneratorName": "<p>Name of the report generator.</p>",
"ReportGenerator$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report
generator.</p>",
"ReportGenerator$LastRunStatus": "<p>Status of the last report generation attempt.</p>",
"ReportGenerator$LastRunFailureReason": "<p>Failure
message for the last report generation attempt.</p>",
"ReportGenerator$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",
"ReportGenerator$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the
report generator.</p>",
"ReportGenerator$Description": "<p>Description of the report generator.</p>",
"ReportGenerator$CreateTime": "<p>Time the report was created.</p>",
"ResourceInventory$ResourceId": "<p>ID of the resource.</p>",
"ResourceInventory$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",
"ResourceInventory$Platform": "<p>Platform of the resource.</p>",
"ResourceInventory$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",
"ResourceInventory$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",
"S3Location$bucket": "<p>Name of the S3 bucket reports are published to.</p>",

"S3Location$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",
"StringList$member": null,
"Tag$Key": "<p>Tag key.</p>",
"Tag$Value": "<p>Tag value.</p>",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
"TokenData$TokenId": "<p>Token ID.</p>",
"TokenData$TokenType": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>",
"TokenData$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
"TokenData$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>",
"UntagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
"UpdateLicenseConfigurationRequest$Name":
"<p>New name of the license configuration.</p>",
"UpdateLicenseConfigurationRequest$Description": "<p>New description of the license configuration.</p>",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon
Resource Name (ARN) of the report generator to update.</p>",
"UpdateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the
Amazon Web Services resource.</p>",
"UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3
bucket where the License Manager information is stored.</p>",
"UpdateServiceSettingsRequest$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS
topic used for License Manager alerts.</p>"
}

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    },
    "StringList": {
      "base": null,
      "refs": {
        "CreateLicenseConfigurationRequest$LicenseRules":
          "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The
          available rules vary by dimension, as follows.</p>
          <ul>
            <li><p> <code>Cores</code> dimension:
              <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> |
              <code>minimumCores</code> </p>
            </li>
            <li><p> <code>Instances</code> dimension:
              <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> |
              <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> |
              <code>minimumVcpus</code> </p>
            </li>
            <li><p> <code>Sockets</code> dimension:
              <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> |
              <code>minimumSockets</code> </p>
            </li>
            <li><p> <code>vCPUs</code> dimension:
              <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |
              <code>minimumVcpus</code> </p>
            </li>
          </ul>
          <p>The unit for <code>licenseAffinityToHost</code>
          is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-
          Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible
          values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",
        "GetLicenseConfigurationResponse$LicenseRules": "<p>License rules.</p>",
        "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
        "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the
        license configurations.</p>",
        "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
        "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
        "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add
        after you create a license configuration is licenseAffinityToHost.</p>"
      }
    },
    "Tag": {
      "base": "<p>Details about a tag
      for a license configuration.</p>",
      "refs": {
        "TagList$member": null
      }
    },
    "TagKeyList": {
      "base": null,
      "refs": {
        "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
      }
    },
    "TagList": {
      "base": null,
      "refs": {
        "CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
        "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
        "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",

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    "ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
    "ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
    "TagResourceRequest$Tags": "<p>One or more tags.</p>"
  }
},
"TagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"TagResourceResponse": {
  "base": null,
  "refs": {

  }
},
"TokenData": {
  "base": "<p>Describes a token.</p>",
  "refs": {
    "TokenList$member": null
  }
},
"TokenList": {
  "base": null,
  "refs": {
    "ListTokensResponse$Tokens": "<p>Received token details.</p>"
  }
},
"TokenString": {
  "base": null,
  "refs": {
    "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
  }
},
"TokenType": {
  "base": null,
  "refs": {
    "CreateTokenResponse$TokenType": "<p>Token type.</p>"
  }
},
"UnsupportedDigitalSignatureMethodException": {
  "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
  "refs": {
  }
},
"UntagResourceRequest": {

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    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse": {
  {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {

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    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    }
  ]
}

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    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-northeast-1"
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-northeast-2"
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "ap-northeast-3"
    }
  },
  {
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-south-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,

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        "UseDualStack": false,
        "Region": "ap-south-1"
    }
},
{
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack":
false,
        "Region": "ap-southeast-1"
    }
},
{
    "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-southeast-2"
    }
},
{
    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-southeast-3.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-southeast-3"
    }
},
{
    "documentation":
    "For region ca-central-1 with FIPS disabled and DualStack disabled",
    "expect": {

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        "endpoint": {
            "url": "https://license-manager.ca-central-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ca-central-1"
    }
},
{
    "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-central-1"
    }
},
{
    "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-north-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-north-1"
    }
},
{
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-south-1"
    }
}

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    }
  },
  {
    "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.eu-west-1.amazonaws.com"
      }
    },
    "params":
  {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-1"
  }
},
{
  "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-2"
  }
},
{
  "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.eu-west-3.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "eu-west-3"
  }
},
{
  "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.me-south-1.amazonaws.com"
    }
  }
}

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    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "me-south-1"
  }
},
{
  "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.sa-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "sa-east-1"
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-east-1"
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-east-1"
  }
},

```



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{
  "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-2.amazonaws.com"
    }
  },

  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-east-2"
  }
},
{
  "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-2.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-east-2"
  }
},
{
  "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-west-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-west-1"
  }
},
{
  "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-west-1.amazonaws.com"
    }
  },

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```

    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-west-1"
    }
  },
  {
    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-west-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-west-2"
    }
  },
  {
    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-west-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-west-2"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

```

```

    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-1.api.aws"
      }
    },

    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "cn-northwest-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,

```

```

        "Region": "cn-north-1"
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "cn-north-1"
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "cn-north-1"
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-gov-east-1"
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
        }
    }

```

```

    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-gov-east-1"
  }
},
{
  "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-gov-west-1"
  }
},
{
  "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": false,
    "Region": "us-gov-west-1"
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": true,
    "Region": "us-gov-east-1"
  }
},

```

```

{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": true,
    "Region": "us-gov-east-1"
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Region": "us-iso-east-1"
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "UseFIPS": true,
    "UseDualStack": true,
    "Region": "us-iso-east-1"
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "UseFIPS": true,

```

```

        "UseDualStack": false,
        "Region": "us-iso-east-1"
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-iso-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params":
{
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {

```

```

        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },

```



```

    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,

```

```

    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {

    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ]
  }
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ]
  },
  "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
  "type": "error"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",

```

```

        "argv": [
            {
                "ref": "UseDualStack"
            },
            true
        ]
    },
    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
},
{
    "conditions": [],
    "endpoint": {
        "url": {

            "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {

```

```

"fn": "aws.partition",
  "argv": [
    {
      "ref": "Region"
    }
  ],
  "assign": "PartitionResult"
}
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {

```

```

"fn": "getAttr",
  "argv": [
    {
      "ref": "PartitionResult"
    },
    "supportsFIPS"
  ]

```

```

        }
    ]
},
{
    "fn": "booleanEquals",
    "argv": [
        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
},
],
"rules": [
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
}

```

```

    ],
    "type": "tree"
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        true
      }
    ],
    "rules": [
      {
        "conditions": [],
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            }
          }
        ]
      }
    ]
  }
]

```

```

        },
        "type": "endpoint"
    }
    ],
    "type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ]
        }
    ]
}

```

```

    }
  ],
  "rules": [
    {
      "conditions": [],
      "rules": [

{
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ],
  "type": "tree"
}
],
"type": "tree"
},
{
  "conditions": [],
  "error": "DualStack is enabled but this partition does not support DualStack",
  "type": "error"
}
],
"type": "tree"
},
{
  "conditions": [],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},

"headers": {}
      },
      "type": "endpoint"
    }
  ],
  "type": "tree"

```



```

        }
    },
    "type": "tree"
}

],
"type": "tree"
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
],
"type": "tree"
}
]
}
{
    "pagination": {
        "ListLinuxSubscriptionInstances": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "Instances"
        },
        "ListLinuxSubscriptions": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "Subscriptions"
        },
        "ListRegisteredSubscriptionProviders": {
            "input_token": "NextToken",
            "output_token": "NextToken",
            "limit_key": "MaxResults",
            "result_key": "RegisteredSubscriptionProviders"
        }
    }
}
{
    "version": "1.0",
    "examples": {
    }
}
{
    "pagination": {
        "ListIdentityProviders": {
            "input_token": "NextToken",

```

```

    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "IdentityProviderSummaries"
  },
  "ListInstances": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceSummaries"
  },
  "ListProductSubscriptions": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "ProductUserSummaries"
  },
  "ListUserAssociations": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceUserSummaries"
  }
}
}
}

```

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```
{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-05-10",
    "endpointPrefix":"license-manager-user-subscriptions",
    "jsonVersion":"1.1",
    "protocol":"rest-json",
    "serviceFullName":"AWS License Manager User Subscriptions",
    "serviceId":"License Manager User Subscriptions",
    "signatureVersion":"v4",
    "signingName":"license-manager-user-subscriptions",
    "uid":"license-manager-user-subscriptions-2018-05-10"
  },
  "operations":{
    "AssociateUser":{
      "name":"AssociateUser",
      "http":{
        "method":"POST",
        "requestUri":"/user/AssociateUser",
        "responseCode":200
      },
      "input":{"shape":"AssociateUserRequest"},
      "output":{"shape":"AssociateUserResponse"},
      "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
      ],
      "idempotent":true
    },
    "DeregisterIdentityProvider":{
      "name":"DeregisterIdentityProvider",
      "http":{
        "method":"POST",
        "requestUri":"/identity-provider/DeregisterIdentityProvider",
        "responseCode":200
      },
      "input":{"shape":"DeregisterIdentityProviderRequest"},
      "output":{"shape":"DeregisterIdentityProviderResponse"},
      "errors":[]
    }
  }
}
```

```

        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
    ],
    "idempotent":true
},
"DisassociateUser":{
    "name":"DisassociateUser",
    "http":{
        "method":"POST",
        "requestUri":"/user/DisassociateUser",
        "responseCode":200
    },
    "input":{"shape":"DisassociateUserRequest"},
    "output":{"shape":"DisassociateUserResponse"},
    "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
    ],
    "idempotent":true
},
"ListIdentityProviders":{
    "name":"ListIdentityProviders",
    "http":{
        "method":"POST",
        "requestUri":"/identity-provider/ListIdentityProviders",
        "responseCode":200
    },
    "input":{"shape":"ListIdentityProvidersRequest"},
    "output":{"shape":"ListIdentityProvidersResponse"},
    "errors":[
        {"shape":"ServiceQuotaExceededException"},
        {"shape":"ConflictException"},
        {"shape":"ValidationException"},
        {"shape":"ThrottlingException"},
        {"shape":"InternalServerError"},
        {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
    ]
}

```

```

},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},

```

```

"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},

  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
}

```

```

    ]
  },
  "StopProductSubscription":{
    "name":"StopProductSubscription",
    "http":{
      "method":"POST",
      "requestUri":"/user/StopProductSubscription",
      "responseCode":200
    },
    "input":{"shape":"StopProductSubscriptionRequest"},
    "output":{"shape":"StopProductSubscriptionResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},

      {"shape":"AccessDeniedException"}
    ]
  },
  "UpdateIdentityProviderSettings":{
    "name":"UpdateIdentityProviderSettings",
    "http":{
      "method":"POST",
      "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
    "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"AccessDeniedException"}
    ],
    "idempotent":true
  }
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  },

```

```

"ActiveDirectoryIdentityProvider":{
  "type":"structure",
  "members":{
    "DirectoryId":{"shape":"String"}
  }
},
"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
}

```



```

    }
  },
  "DeregisterIdentityProviderResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
    }
  },
  "DisassociateUserRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{"shape":"InstanceUserSummary"}
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Attribute":{"shape":"String"},
      "Operation":{"shape":"String"},
      "Value":{"shape":"String"}
    }
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  "FilterList":{
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    "member":{"shape":"Filter"}
  },
  "IdentityProvider":{
    "type":"structure",
    "members":{
      "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
    }
  },
  "union":true

```

```

},
"IdentityProviderSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members":{
    "FailureMessage":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"},
    "Status":{"shape":"String"}
  }
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
    "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],

```

```

"members":{
  "AssociationDate":{"shape":"String"},
  "DisassociationDate":{"shape":"String"},
  "Domain":{"shape":"String"},
  "IdentityProvider":{"shape":"IdentityProvider"},
  "InstanceId":{"shape":"String"},
  "Status":{"shape":"String"},
  "StatusMessage":{"shape":"String"},
  "Username":{"shape":"String"}
}
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{

    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesResponse":{

```

```

    "type": "structure",
    "members": {
      "InstanceSummaries": { "shape": "InstanceSummaryList" },
      "NextToken": { "shape": "String" }
    }
  },
  "ListProductSubscriptionsRequest": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "Product"
    ],
    "members": {
      "Filters": { "shape": "FilterList" },
      "IdentityProvider": { "shape": "IdentityProvider" },
      "MaxResults": { "shape": "BoxInteger" },
      "NextToken": { "shape": "String" },
      "Product": { "shape": "String" }
    }
  },
  "ListProductSubscriptionsResponse": {
    "type": "structure",
    "members": {
      "NextToken": { "shape": "String" },
      "ProductUserSummaries": { "shape": "ProductUserSummaryList" }
    }
  },
  "ListUserAssociationsRequest": {
    "type": "structure",
    "required": [
      "IdentityProvider",
      "InstanceId"
    ],
    "members": {
      "Filters": { "shape": "FilterList" },
      "IdentityProvider": { "shape": "IdentityProvider" },
      "InstanceId": { "shape": "String" },
      "MaxResults": { "shape": "BoxInteger" },
      "NextToken": { "shape": "String" }
    }
  },
  "ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
      "InstanceUserSummaries": { "shape": "InstanceUserSummaryList" },
      "NextToken": { "shape": "String" }
    }
  }
}

```

```

},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "SubscriptionEndDate":{"shape":"String"},
    "SubscriptionStartDate":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  }
},

```

```

"error":{
  "httpStatusCode":404,
  "senderFault":true
},
"exception":true
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-([0-9a-z]{8})|([0-9a-z]{17})$"
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
  ],
  "members":{
    "SecurityGroupId":{"shape":"SecurityGroup"},
    "Subnets":{"shape":"SettingsSubnetsList"}
  }
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
}

```

```

},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true

```

```

},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "UpdateSettings"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "UpdateSettings":{"shape":"UpdateSettings"}
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{"shape":"Subnets"},
    "RemoveSubnets":{"shape":"Subnets"},
    "SecurityGroupId":{"shape":"SecurityGroup"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}

```

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```
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "DeregisterSubscriptionProvider": {
      "name": "DeregisterSubscriptionProvider",
      "http": {
        "method": "POST",
        "requestUri": "/subscription/DeregisterSubscriptionProvider",
        "responseCode": 200
      },
      "input": {"shape": "DeregisterSubscriptionProviderRequest"},
      "output": {"shape": "DeregisterSubscriptionProviderResponse"},
      "errors": [
        {"shape": "InternalServerError"},
        {"shape": "ResourceNotFoundException"},
        {"shape": "ThrottlingException"},
        {"shape": "ValidationException"}
      ],
      "idempotent": true
    },
    "GetRegisteredSubscriptionProvider": {
      "name": "GetRegisteredSubscriptionProvider",
      "http": {
```

```

    "method":"POST",
    "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
  "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptions":{
  "name":"ListLinuxSubscriptions",

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```

"http":{
  "method":"POST",
  "requestUri":"/subscription/ListLinuxSubscriptions",
  "responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionsRequest"},
"output":{"shape":"ListLinuxSubscriptionsResponse"},
"errors":[
  {"shape":"InternalServerError"},
  {"shape":"ThrottlingException"},
  {"shape":"ValidationException"}
],
"idempotent":true
},
>ListRegisteredSubscriptionProviders:{
  "name":"ListRegisteredSubscriptionProviders",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
    "responseCode":200
  },
  "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
  "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
>ListTagsForResource:{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ]
},
RegisterSubscriptionProvider:{
  "name":"RegisterSubscriptionProvider",
  "http":{

```

```

    "method": "POST",
    "requestUri": "/subscription/RegisterSubscriptionProvider",
    "responseCode": 200
  },
  "input": { "shape": "RegisterSubscriptionProviderRequest" },
  "output": { "shape": "RegisterSubscriptionProviderResponse" },
  "errors": [
    { "shape": "InternalServerError" },
    { "shape": "ThrottlingException" },
    { "shape": "ValidationException" }
  ],
  "idempotent": true
},
"TagResource": {
  "name": "TagResource",
  "http": {
    "method": "PUT",
    "requestUri": "/tags/{resourceArn}",
    "responseCode": 200
  },
  "input": { "shape": "TagResourceRequest" },
  "output": { "shape": "TagResourceResponse" },
  "errors": [
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "ValidationException" }
  ],
  "idempotent": true
},
"UntagResource": {
  "name": "UntagResource",
  "http": {
    "method": "DELETE",
    "requestUri": "/tags/{resourceArn}",
    "responseCode": 200
  },
  "input": { "shape": "UntagResourceRequest" },
  "output": { "shape": "UntagResourceResponse" },
  "errors": [
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" }
  ],
  "idempotent": true
},
"UpdateServiceSettings": {
  "name": "UpdateServiceSettings",
  "http": {

```



```

    "method":"POST",
    "requestUri":"/subscription/UpdateServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
}
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "DeregisterSubscriptionProviderRequest":{
    "type":"structure",
    "required":["SubscriptionProviderArn"],
    "members":{
      "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
    }
  },
  "DeregisterSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Operator":{"shape":"Operator"},
      "Values":{"shape":"StringList"}
    }
  },
  "FilterList":{

```

```

    "type": "list",
    "member": { "shape": "Filter" }
  },
  "GetRegisteredSubscriptionProviderRequest": {
    "type": "structure",
    "required": [ "SubscriptionProviderArn" ],
    "members": {
      "SubscriptionProviderArn": { "shape": "SubscriptionProviderArn" }
    }
  },
  "GetRegisteredSubscriptionProviderResponse": {
    "type": "structure",
    "members": {
      "LastSuccessfulDataRetrievalTime": { "shape": "String" },
      "SecretArn": { "shape": "SecretArn" },
      "SubscriptionProviderArn": { "shape": "SubscriptionProviderArn" },
      "SubscriptionProviderSource": { "shape": "SubscriptionProviderSource" },
      "SubscriptionProviderStatus": { "shape": "SubscriptionProviderStatus" },
      "SubscriptionProviderStatusMessage": { "shape": "String" }
    }
  },
  "GetServiceSettingsRequest": {
    "type": "structure",
    "members": {
    }
  },
  "GetServiceSettingsResponse": {
    "type": "structure",
    "members": {
      "HomeRegions": { "shape": "StringList" },
      "LinuxSubscriptionsDiscovery": { "shape": "LinuxSubscriptionsDiscovery" },
      "LinuxSubscriptionsDiscoverySettings": { "shape": "LinuxSubscriptionsDiscoverySettings" },
      "Status": { "shape": "Status" },
      "StatusMessage": { "shape": "StringMap" }
    }
  },
  "Instance": {
    "type": "structure",
    "members": {
      "AccountID": { "shape": "String" },
      "AmiId": { "shape": "String" },
      "DualSubscription": { "shape": "String" },
      "InstanceID": { "shape": "String" },
      "InstanceType": { "shape": "String" },
      "LastUpdatedTime": { "shape": "String" },
      "OsVersion": { "shape": "String" },
      "ProductCode": { "shape": "ProductCodeList" },
      "Region": { "shape": "String" },

```

```

    "RegisteredWithSubscriptionProvider":{"shape":"String"},
    "Status":{"shape":"String"},
    "SubscriptionName":{"shape":"String"},
    "SubscriptionProviderCreateTime":{"shape":"String"},
    "SubscriptionProviderUpdateTime":{"shape":"String"},
    "UsageOperation":{"shape":"String"}
  }
},

"InstanceList":{
  "type":"list",
  "member":{"shape":"Instance"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"LinuxSubscriptionsDiscovery":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{"shape":"OrganizationIntegration"},
    "SourceRegions":{"shape":"StringList"}
  }
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{

```

```

    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionInstancesResponse":{
    "type":"structure",
    "members":{
      "Instances":{"shape":"InstanceList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLinuxSubscriptionsRequest":{
    "type":"structure",
    "members":{
      "Filters":{"shape":"FilterList"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "Subscriptions":{"shape":"SubscriptionList"}
    }
  },
  "ListRegisteredSubscriptionProvidersRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger"},
      "NextToken":{"shape":"String"},
      "SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  },
  "ListRegisteredSubscriptionProvidersResponse":{
    "type":"structure",
    "members":{

```

```

    "NextToken":{"shape":"String"},
    "RegisteredSubscriptionProviders":{"shape":"RegisteredSubscriptionProviderList"}
  },
  "ListTagsForResourceRequest":{"
    "type":"structure",
    "required":["resourceArn"],
    "members":{"
      "resourceArn":{"
        "shape":"SubscriptionProviderArn",
        "location":"uri",
        "locationName":"resourceArn"
      }
    }
  },
  "ListTagsForResourceResponse":{"
    "type":"structure",
    "members":{"
      "tags":{"shape":"Tags"}
    }
  },
  "Operator":{"
    "type":"string",
    "enum":[
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max":20,
    "min":1
  },
  "OrganizationIntegration":{"
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },
  "ProductCodeList":{"
    "type":"list",
    "member":{"shape":"String"}
  },
  "RegisterSubscriptionProviderRequest":{"
    "type":"structure",
    "required":[
      "SecretArn",
      "SubscriptionProviderSource"
    ],

```

```

"members":{
  "SecretArn":{"shape":"SecretArn"},
  "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
  "Tags":{"shape":"Tags"}
}
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{"shape":"String"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
  }
},
"RegisteredSubscriptionProvider":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",

    "Completed",
    "Successful",
    "Failed"
  ]
}

```

```

    ]
  },
  "String":{"type":"string"},
  "StringList":{"
    "type":"list",
    "member":{"shape":"StringListMemberString"},
    "max":100,
    "min":1
  },
  "StringListMemberString":{"
    "type":"string",
    "max":100,
    "min":1
  },
  "StringMap":{"
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"}
  },
  "Subscription":{"
    "type":"structure",
    "members":{"
      "InstanceCount":{"shape":"BoxLong"},
      "Name":{"shape":"String"},
      "Type":{"shape":"String"}
    }
  },
  "SubscriptionList":{"
    "type":"list",
    "member":{"shape":"Subscription"}
  },
  "SubscriptionProviderArn":{"
    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
  },
  "SubscriptionProviderSource":{"
    "type":"string",
    "enum":["RedHat"]
  },
  "SubscriptionProviderSourceList":{"
    "type":"list",
    "member":{"shape":"SubscriptionProviderSource"}
  },
  "SubscriptionProviderStatus":{"
    "type":"string",
    "enum":[
      "ACTIVE",

```

```

    "INVALID",
    "PENDING"
  ],
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "resourceArn",
    "tags"
  ],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tags":{"shape":"Tags"}
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",

```



```

"required":[
  "resourceArn",
  "tagKeys"
],
"members":{
  "resourceArn":{
    "shape":"SubscriptionProviderArn",
    "location":"uri",
    "locationName":"resourceArn"
  },
  "tagKeys":{
    "shape":"TagKeyList",
    "location":"querystring",
    "locationName":"tagKeys"
  }
}
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
    "AllowUpdate":{"shape":"Boolean"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
  }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},
    "StatusMessage":{"shape":"StringMap"}
  }
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  }
}

```

```

    },
    "exception":true
  }
}
{
  "pagination": {
  }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [

```

```

        {
            "ref": "Endpoint"
        }
    ]
}
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],

```

"endpoint": {

 "url": {

```

        "ref": "Endpoint"
      },
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ]
    },
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        },
        "assign": "PartitionResult"
      ]
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {

```

true

```
        "ref": "UseFIPS"
      },
      ]
    },
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"
              ]
            }
          ]
        }
      ]
    },
    {
      "fn": "booleanEquals",
      "argv": [
        true,
        {
          "fn": "getAttr",
          "argv": [
            {
              "ref": "PartitionResult"
            },
            "supportsDualStack"
          ]
        }
      ]
    }
  ]
}
```

```

        }
    ]
}
],
"type": "tree",
"rules": [
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
}

}

    ]
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
}
]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ]
}
],
"type": "tree",

```

```

"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              }
            ]
          }
        ]
      }
    ]
  },
  {
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url":
"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      }
    ]
  },
  {
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
  }
]

```

```

    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv":
[
                true,
                {
                  "fn": "getAttr",
                  "argv": [
                    {
                      "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                  ]
                }
              ]
            }
          ],
          "type": "tree",
          "rules": [

            {
              "conditions": [],
              "type": "tree",
              "rules": [
                {
                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}

```



```

        },
        "type": "endpoint"
    }
]

}
]
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
}
]
}
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
}
{
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
      }
    }
  },

```

```

"params": {
  "Region": "cn-north-1",
  "UseFIPS": false,
  "UseDualStack": false
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  },
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  },
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  },
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
  "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
  "expect": {

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        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect":
{
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,

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    "Endpoint": "https://example.com"
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}

```

1.570 Iz4 4.1.21

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1.571 klauspost-compress 1.18.0

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Files: s2/cmd/internal/filepathx/*

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1.572 websocket 1.5.0

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```
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/channel/WebSocketConnectorChannel.java/*
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/client/WebSocketClientConfiguration.java/*
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/client/WebSocketConnectorClientFactory.java/*
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/client/WebSocketEndpoint.java/*
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/exception/WebSocketConnectorException.java/*
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/spring/ConnectorWebSocketConfiguration.java/*
```

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in path(s):

*

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```
<?xml version="1.0" encoding="UTF-8"?>
```

Found in path(s):

```
* /gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/META-INF/maven/io.gravitee.exchange/gravitee-exchange-connector-websocket/pom.xml
```

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```
/opt/cola/permits/2741563451_1762352954.1526816/0/gravitee-exchange-connector-websocket-1-5-0-sources-8-jar/io/gravitee/exchange/connector/websocket/WebSocketExchangeConnector.java/*
```

Found in path(s):

```
* </project>
```

1.573 logrus 1.8.1

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1.574 logrus 1.9.0

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1.575 logrus 1.4.2

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1.576 go-cleanhttp 0.5.2

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