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1.4 go-xdr 20161122-snapshot-e6a2ba00

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1.5 scram 1.0.3

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1.6 dlclark/regexp2 20171008-snapshot-7632a260
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Dependency: go.uber.org/zap
Version: v1.14.0
License type: MIT
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Dependency: github.com/magefile/mage
Version: v1.9.0
License type: Apache-2.0
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Dependency: github.com/pkg/errors
Version: v0.9.1
License type (autodetected): BSD-2-Clause
https://github.com/pkg/errors/blob/614d223910a179a466c1767a985424175c39b465/LICENSE

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1.12 elastic/apm-agent-go v1.7.2

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1.13 bsm-sarama-cluster 20180625-snapshot-7e67d87a

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1.15 mattn/go-ieproxy 20191113-snapshot-7c0f6868

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1.16 cavaliercoder/go-rpm

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1.19 fatih-color v1.9.0

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1.21 hashicorp-golang-lru v0.5.4

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1.23 golang-org-x-sync 20210219-snapshot-036812b2

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1.24 goidentity v3.0.0

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1.25 github.com/elastic/go-structform v0.0.9

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1.26 elastic/go-lumber v0.1.0

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1.28 oneofone-xxhash v1.2.2

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1.38 docker-go-metrics v0.0.1
1.38.1 Available under license:
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THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
package dependency // import "go.elastic.co/go-licence-detector/dependency"

import (  
"encoding/json"  
"errors"  
"fmt"  
"io"  
"os"  
"path/filepath"

securejoin "github.com/cyphar/filepath-securejoin"
)

// List holds direct and indirect dependency information.  
type List struct {  
Direct []Info  
Indirect []Info  
}

// Info holds information about a dependency.  
type Info struct {

1.39 elastic/go-licence-detector v0.4.0
1.39.1 Available under license:

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// "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.
Name string `json:``name```
Dir string `json:``-```
LicenceFile string `json:``licenceFile```
LicenceType string `json:``licenceType```
URL string `json:``url```
Version string `json:``version```
VersionTime string `json:``versionTime```
LicenceTextOverrideFile string `json:``licenceTextOverrideFile```

// Overrides is a mapping from module name to dependency info.
type Overrides map[string]Info

// LoadOverrides loads the dependency overrides from the given file.
// LicenceTextOverrideFile will be read relative to the parent directory of the file.
func LoadOverrides(file string) (Overrides, error) {
    depMap := make(Overrides)
    if file == "" {
        return depMap, nil
    }

    f, err := os.Open(file)
    if err != nil {
        return nil, fmt.Errorf("failed to open overrides file %s: %w", file, err)
    }
    defer f.Close()

    rootDir, err := filepath.Abs(filepath.Dir(file))
    if err != nil {
        return nil, fmt.Errorf("failed to determine absolute path of overrides file: %w", err)
    }

    decoder := json.NewDecoder(f)
    for {
        var dep Info
        err := decoder.Decode(&dep)
        if err != nil {
            if errors.Is(err, io.EOF) {
                return depMap, nil
            }
            return depMap, fmt.Errorf("error reading dependency information: %w", err)
        }

        if dep.LicenceTextOverrideFile != "" {
            licFile, err := securejoin.SecureJoin(rootDir, dep.LicenceTextOverrideFile)
            if err != nil {
                return nil, fmt.Errorf("failed to generate secure path to licence text file of %s: %w", dep.Name, err)
            }
        }
    }
    return depMap, fmt.Errorf("error reading dependency information: %w", err)
}

if dep.LicenceTextOverrideFile != "" {
    licFile, err := securejoin.SecureJoin(rootDir, dep.LicenceTextOverrideFile)
    if err != nil {
        return nil, fmt.Errorf("failed to generate secure path to licence text file of %s: %w", dep.Name, err)
    }
}
package validate

import {
    "fmt"
    "io"
    "io/ioutil"
    "net/http"
    "net/http/httptest"
    "testing"
    "github.com/stretchr/testify/require"
    "go.elastic.co/go-licence-detector/dependency"
}

func TestValidateURLs(t *testing.T) {
        defer func() {
            if r.Body != nil {
                _, _ = io.Copy(ioutil.Discard, r.Body)
                r.Body.Close()
            }
        }()
        if r.Method == http.MethodHead && r.URL.Query().Get("no_head") == "true" {
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        }
    }))

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    })
http.Error(w, "method not supported", http.StatusMethodNotAllowed)
return
}

if r.URL.Query().Get("valid") == "true" {
    fmt.Fprintln(w, "OK")
} else {
    http.NotFound(w, r)
}
}
}
def def server.Close()

mkDepInfo := func(name string, valid, noHead bool) dependency.Info {
    return dependency.Info{
        Name: name,
        URL: fmt.Sprintf("%s/%s?valid=%t&no_head=%t", server.URL, name, valid, noHead),
    }
}

testCases := []struct {
    name    string
    deps    *dependency.List
    wantErr bool
}
{
    name: "AllValid",
    deps: &dependency.List{
        Direct: []dependency.Info{mkDepInfo("a", true, false), mkDepInfo("b", true, false)},
        Indirect: []dependency.Info{mkDepInfo("c", true, false), mkDepInfo("d", true, false)},
    },
    wantErr: false,
}
{
    name: "AllValidWithUnsupportedMethod",
    deps: &dependency.List{
        Direct: []dependency.Info{mkDepInfo("a", true, false), mkDepInfo("b", true, true)},
        Indirect: []dependency.Info{mkDepInfo("c", true, false), mkDepInfo("d", true, true)},
    },
    wantErr: false,
}
{
    name: "InvalidDirectDep",
    deps: &dependency.List{
        Direct: []dependency.Info{mkDepInfo("a", true, false), mkDepInfo("b", false, false)},
        Indirect: []dependency.Info{mkDepInfo("c", true, false), mkDepInfo("d", true, false)},
    },
    wantErr: true,
}
{
    name: "InvalidDirectDepWithUnsupportedMethod",
for _, tc := range testCases {
  t.Run(tc.name, func(t *testing.T) {
    err := validateURLs(tc.deps)
    if tc.wantErr {
      require.Error(t, err)
    } else {
      require.NoError(t, err)
    }
  })
}

{{- define "depInfo" -}}
{{- range $i, $dep := . }}
  {{ "-" | line }}
  Module : {{ $dep.Name }}
  Version : {{ $dep.Version }}
  Time    : {{ $dep.VersionTime }}
  Licence : {{ $dep.LicenceType }}
  {{ $dep | licenceText }}
{{- end -}}

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Third party libraries used by the go-licence-detector project

Indirect dependencies

SECONDARY LICENCE

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package detector

import (  "encoding/json"  "fmt"  "io"  "io/ioutil"  "os"

"github.com/markbates/pkger"
)

const embeddedRulesFile = "go.elastic.co/go-licence-detector:/assets/rules.json"
type rulesFile struct {
    Allowlist []string `json:"allowlist"
    Maybelist []string `json:"maybelist"
}

// Rules holds rules for the detector.
type Rules struct {
    AllowList map[string]struct{}
    Maybelist map[string]struct{}
}

// LoadRules loads rules from the given path. Embedded rules file is loaded if the path is empty.
func LoadRules(path string) (*Rules, error) {
    var f io.ReadCloser
    var err error

    if path == "" {
        f, err = pkger.Open(embeddedRulesFile)
    } else {
        f, err = os.Open(path)
    }

    if err != nil {
        return nil, fmt.Errorf("failed to open rules file: %w", err)
    }
    defer f.Close()

    ruleBytes, err := ioutil.ReadAll(f)
    if err != nil {
        return nil, fmt.Errorf("failed to read rules: %w", err)
    }

    var rf rulesFile
    if err := json.Unmarshal(ruleBytes, &rf); err != nil {
        return nil, fmt.Errorf("failed to unmarshal rules: %w", err)
    }

    rules := &Rules{
        AllowList: make(map[string]struct{}, len(rf.Allowlist)),
        Maybelist: make(map[string]struct{}, len(rf.Maybelist)),
    }

    for _, w := range rf.Allowlist {
        rules.AllowList[w] = struct{}{}
    }

    for _, y := range rf.Maybelist {
func (r *Rules) IsAllowed(licenceID string) bool {
    isAllowListed := r.AllowList[licenceID]
    isMaybeListed := r.Maybelist[licenceID]
    return isAllowListed || isMaybeListed
}

// IsAllowed returns true if the given licence is allowed by the rules.
// In practice, the number of errors encountered should be very low. If we are seeing a lot of errors, something is
terribly broken (e.g. no network) and there's no point in continuing.
const maxErrors = 12

// Validate runs validation checks against the discovered dependencies.
func Validate(deps *dependency.List) error {
    return validateURLs(deps)
}

func validateURLs(deps *dependency.List) error {
    ctx, cancelFunc := context.WithCancel(context.Background())
    defer cancelFunc()

everrorCount := uint32
    depsChan := make(chan dependency.Info, 64)
    numWorkers := runtime.NumCPU() + 2 // Rule of thumb for short-lived IO work. Feel free to tweak as necessary.
    client := newHTTPClient()
    group, ctx := errgroup.WithContext(ctx)

    // start workers
    for i := 0; i < numWorkers; i++ {
        group.Go(func() error {
            for dep := range depsChan {
                log.Printf("Checking %s", dep.Name)
                if err := checkDependencyURL(client, dep); err != nil {
                    log.Printf("ERROR: Invalid URL [%s] for dependency [%s]: %v", dep.URL, dep.Name, err)
                    if count := atomic.AddUint32(&errorCount, 1); count > maxErrors {
                        return errors.New("maximum error count exceeded")
                    }
                }
            }
            return nil
        })
    }

    // distribute work to workers
    group.Go(func() error {
        defer close(depsChan)
        for _, depList := range [][]dependency.Info{deps.Direct, deps.Indirect} {
            for _, dep := range depList {
                select {
                case <-ctx.Done():
                    return ctx.Err()
                case depsChan <- dep:
                }
            }
        }
    })
func newHTTPClient() *http.Client {
    transport := *defaultTransport
    transport.MaxConnsPerHost = 5
    transport.IdleConnTimeout = 60 * time.Second
    transport.ResponseHeaderTimeout = 15 * time.Second
    return &http.Client{
        Transport: &transport,
        Timeout:   30 * time.Second,
    }
}

func checkDependencyURL(client *http.Client, dep dependency.Info) error {
    if err == nil && code == http.StatusMethodNotAllowed {
        code, err = mkRequest(client, http.MethodGet, dep.URL)
    }
    if err != nil {
        return err
    }
    // codes between 200 and 400 are OK.
    if code >= 200 && code < 400 {
        return nil
    }
    return fmt.Errorf("request returned status code %d", code)
}

func mkRequest(client *http.Client, method, url string) (int, error) {
    ctx, cancelFunc := context.WithTimeout(context.Background(), 30*time.Second)
    defer cancelFunc()
if err != nil {
    return http.StatusBadRequest, fmt.Errorf("failed to create %s request to %s: %w", method, url, err)
}

resp, err := client.Do(req)
if err != nil {
    return http.StatusBadRequest, fmt.Errorf("%s request to %s returned an error: %w", method, url, err)
}

// cleanup the connection
if resp.Body != nil {
    resp.Body.Close()
}

return resp.StatusCode, nil

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package dependency

import (       "os"       "path/filepath"       "testing"
    "github.com/stretchr/testify/require"
)

func TestLoadOverrides(t *testing.T) {
    overrides, err := LoadOverrides("testdata/overrides.json")
    require.NoError(t, err)
require.Len(t, overrides, 4)

o1 := overrides["my.pkg/v1"]
require.Equal(t, "Apache-2.0", o1.LicenceType)
require.Empty(t, o1.URL)

o2 := overrides["my.otherpkg/v1"]
require.Equal(t, "https://me.example.com/pkg", o2.URL)
require.Empty(t, o2.LicenceType)

o3LicencePath, err := filepath.Abs("./testdata/my/securepkg/v1/licence.txt")
require.NoError(t, err)
o3 := overrides["my.securepkg/v1"]
require.Equal(t, o3LicencePath, o3.LicenceFile)
require.Empty(t, o3.LicenceType)

o4LicencePath, err := filepath.Abs("./testdata/etc/passwd")
require.NoError(t, err)
o4 := overrides["my.insecurepkg/v1"]
require.Equal(t, o4LicencePath, o4.LicenceFile)
require.Empty(t, o4.LicenceType)
}
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//go:generate pkger -include=go.elastic.co/go-licence-detector:/assets -o=detector

detector // import "go.elastic.co/go-licence-detector/detector"

import {
"encoding/json"
"errors"
"fmt"
"io"
"io/ioutil"
"path/filepath"
"regexp"
"strings"
"time"

securejoin "github.com/cyphar/filepath-securejoin"
"github.com/google/licenseclassifier"
"github.com/karrick/godirwalk"
"github.com/markbates/pkger"
"go.elastic.co/go-licence-detector/dependency"
)

const (  
  // detectionThreshold is the minimum confidence score required from the licence classifier.
  detectionThreshold = 0.85
  licenceDBPath = "go.elastic.co/go-licence-detector:/assets/licence.db"
)

var errLicenceNotFound = errors.New("failed to detect licence")

type dependencies struct {
  direct  []*module
  indirect []*module
}

type module struct {
  Path     string     // module path
  Version  string     // module version
  Main     bool       // is this the main module?
  Time     *time.Time // time version was created
  Indirect bool       // is this module only an indirect dependency of main module?
  Dir      string     // directory holding files for this module, if any
  Replace  *module    // replace directive
}

// NewClassifier creates a new instance of the licence classifier.
func NewClassifier(dataPath string) (*licenseclassifier.License, error) {
  if dataPath == "" {
    return newClassifierFromEmbeddedDB()
  }

  absPath, err := filepath.Abs(dataPath)
  if err != nil {
    return nil, fmt.Errorf("failed to determine absolute path of licence data file: %w", err)
  }

  return licenseclassifier.New(detectionThreshold, licenseclassifier.Archive(absPath))
func newClassifierFromEmbeddedDB() (*licenseclassifier.License, error) {
    f, err := pkger.Open(licenceDBPath)
    if err != nil {
        return nil, fmt.Errorf("failed to open bundled licence database: %w", err)
    }

defer f.Close()

dbBytes, err := ioutil.ReadAll(f)
    if err != nil {
        return nil, fmt.Errorf("failed to read bundled licence database: %w", err)
    }

return licenseclassifier.New(detectionThreshold, licenseclassifier.ArchiveBytes(dbBytes))
}

// Detect searches the dependencies on disk and detects licences.
func Detect(data io.Reader, classifier *licenseclassifier.License, rules *Rules, overrides dependency.Overrides, includeIndirect bool) (*dependency.List, error) {
    // parse the output of go mod list
deps, err := parseDependencies(data, includeIndirect)
    if err != nil {
        return nil, err
    }

    // find licences for each dependency
return detectLicences(classifier, rules, deps, overrides)
}

func parseDependencies(data io.Reader, includeIndirect bool) (*dependencies, error) {
    deps := &dependencies{
    decoder := json.NewDecoder(data)
    for { 
        var mod module
        if err := decoder.Decode(&mod); err != nil {
            if errors.Is(err, io.EOF) {
                return deps, nil
            }

            return nil, err
        }

        if !mod.Main && mod.Dir != "" {
            if includeIndirect {
                if mod.Indirect {
                    if includeIndirect {
                        deps.indirect = append(deps.indirect, &mod)
                    } else {
                        break
                    }
                }
            } else {
                break
            }
        }

        if !mod.Main {
            break
        }

        return nil, err
    }
}

if !mod.Main & mod.Dir != "" {
    if mod.Indirect {
        if includeIndirect {
            deps.indirect = append(deps.indirect, &mod)
    }

else {
    break
}

return nil, err
}
func detectLicences(classifier *licenseclassifier.License, rules *Rules, deps *dependencies, overrides
dependency.Overrides) (*dependency.List, error) {
    depList := &dependency.List{
    licenceRegex := buildLicenceRegex()

    var err error
    if depList.Direct, err = doDetectLicences(licenceRegex, classifier, rules, deps.direct, overrides); err != nil {
        return depList, err
    }

    if depList.Indirect, err = doDetectLicences(licenceRegex, classifier, rules, deps.indirect, overrides); err != nil {
        return depList, err
    }

    return depList, nil
}

func doDetectLicences(licenceRegex *regexp.Regexp, classifier *licenseclassifier.License, rules *Rules, depList
[]*module, overrides dependency.Overrides) ([]dependency.Info, error) {
    if len(depList) == 0 {
        return nil, nil
    }

    depInfoList := make([]dependency.Info, len(depList))
    for i, mod := range depList {
        depInfo := mkDepInfo(mod, overrides)

        // find the licence file if the override hasn't provided one
        if depInfo.LicenceFile == "" {
            var err error
            depInfo.LicenceFile, err = findLicenceFile(depInfo.Dir, licenceRegex)
            if err != nil &
            errors.Is(err, errLicenceNotFound) {
                return nil, fmt.Errorf("failed to find licence file for %s in %s: %w", depInfo.Name, depInfo.Dir, err)
            }
        } else if depInfo.LicenceTextOverrideFile == "" {
            // if licence file is given but no overrides, use the selected licence file
            if err != nil {
                return nil, fmt.Errorf("failed to generate secure path to licence file of %s: %w", depInfo.Name, err)
            }
            depInfo.LicenceFile = licFile
        }
    }

    return depInfoList, nil
}
// detect the licence type if the override hasn't provided one
if depInfo.LicenceType == "" {
    if depInfo.LicenceFile == ""
        return nil, fmt.Errorf("no licence file found for %s. Add an override entry with licence type to continue.", depInfo.Name)
}

var err error
depInfo.LicenceType, err = detectLicenceType(classifier, depInfo.LicenceFile)
if err != nil {
    return nil, fmt.Errorf("failed to detect licence type of %s from %s: %w", depInfo.Name, depInfo.LicenceFile, err)
}

if depInfo.LicenceType == "" {
    return nil, fmt.Errorf("licence unknown for %s. Add an override entry with licence type to continue.", depInfo.Name)
}

if !rules.IsAllowed(depInfo.LicenceType) {
    return nil, fmt.Errorf("dependency %s uses licence %s which is not allowed by the rules file", depInfo.Name, depInfo.LicenceType)
}

depInfoList[i] = depInfo
}

return depInfoList, nil
}

func mkDepInfo(mod *module, overrides dependency.Overrides) dependency.Info {
    m := mod
    if mod.Replace != nil {
        m = mod.Replace
    }

    override, ok := overrides[m.Path]
    if !ok {
        override = dependency.Info{
    }

    return dependency.Info{
        Name: m.Path,
        Dir: coalesce(override.Dir, m.Dir),
        Version: coalesce(override.Version, m.Version),
    }
func coalesce(a, b string) string {
    if a != "" {
        return a
    } 
    return b
}

func determineURL(overrideURL, modulePath string) string {
    if overrideURL != "" {
        return overrideURL
    } 
    parts := strings.Split(modulePath, "/")
    switch parts[0] {
    case "github.com":
        // GitHub URLs that have more than two path elements will return a 404 (e.g. https://github.com/elazarl/goproxy/ext).
        // We strip out the extra path elements from the end to come up with a valid URL like https://github.com/elazarl/goproxy/.
        if len(parts) > 3 {
            return "https://" + strings.Join(parts[:3], "/")
        }
        return "https://" + modulePath
    case "k8s.io":
        return "https://github.com/kubernetes/" + parts[1]
    default:
        return "https://" + modulePath
    }
}

func buildLicenceRegex() *regexp.Regexp {
    licenceFileNames := []string{
        "lics", "licenses?", "legal",
        "copy(left|right|ing)", "unlicense",
        "GPL([-_ v]?)(\d\.\d)?", "bsd",
    }
    // inspired by https://github.com/src-d/go-license-detector/blob/7961dd6009019bc12778175ef7f074ede24bd128/licensedb/internal/investigation.go#L29
    return regexp.MustCompile(`\b` + strings.Join(licenceFileNames, `\b|\b`) + `\b`)
`mit`,
`apache`,
}
regexStr := fmt.Sprintf(`^(?i:(%s)(\.(txt|md|rst))?)$`, strings.Join(licenceFileNames, "|"))
return regexp.MustCompile(regexStr)
}
func findLicenceFile(root string, licenceRegex *regexp.Regexp) (string, error) {
errStopWalk := errors.New("stop walk")
var licenceFile string
err := godirwalk.Walk(root, &godirwalk.Options{
Callback: func(osPathName string, dirent *godirwalk.Dirent) error {
if licenceRegex.MatchString(dirent.Name()) {
if dirent.IsDir() {
return filepath.SkipDir
}
licenceFile = osPathName
return errStopWalk
}
return nil
},
Unsorted: false,
})
if err != nil {
if errors.Is(err, errStopWalk) {
return licenceFile, nil
}
return "", err
}
return "", errLicenceNotFound
}
func detectLicenceType(classifier *licenseclassifier.License, licenceFile string) (string, error) {
contents, err := ioutil.ReadFile(licenceFile)
if err != nil {
return "", fmt.Errorf("failed to read licence content from %s: %w", licenceFile, err)
}
matches := classifier.MultipleMatch(string(contents), true)
// there should be at least one match
if len(matches) < 1 {
return "", fmt.Errorf("failed to detect licence type of %s", licenceFile)
}
// matches are sorted by confidence such that the first result has the highest confidence level

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return matches[0].Name, nil
}

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:return matches[0].Name, nil

---

{{ define "depRow" }}

{{ range $i, $dep := . }}
| link:{{ $dep.URL }}[$${{ $dep.Name }}$$] | {{ $dep.Version }} | {{ $dep.LicenceType }} |
{{ end }}

{{ end }}

// Generated documentation. Please do not edit.

ifdef::env-github[]

****

link:https://www.elastic.co/guide/en/cloud-on-k8s/master/k8s-{page_id}.html[View this document on the Elastic website]

****

endif::[

[id="{p}-{page_id}"

= Third-party dependencies

This page lists the third-party dependencies used to build [n].

[float]
[id="{p}-dependencies-direct"]

== Direct dependencies

[options="header"]

[***}
<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Licence</th>
</tr>
</thead>
</table>

== Indirect dependencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Licence</th>
</tr>
</thead>
</table>

== Container image dependencies

Dependencies included in the {n} container image.

Name, Version, Licence, URL

package render // import "go.elastic.co/go-licence-detector/render"

import (  "bytes"
package go.elastic.co/go-licence-detector

import "fmt"
import "go/build"
import "io"
import "log"
import "os"
import "path/filepath"
import "regexp"
import "strconv"
import "strings"
import "text/template"
import "time"
import "golang.org/x/mod/semver"

// type extraLicenceTextFunc func(dependency.Info) string

var extraTextByLicence = map[string]extraLicenceTextFunc{
    "EPL-1.0": func(depInfo dependency.Info) string {
        headerStr := `Pursuant to Section 7.1 of EPL v1.0, this library is being distributed under EPL v2.0,
        which is available at https://www.eclipse.org/legal/epl-2.0/.
        The source code is available at %s with link to the repo for the source code.
        `
        return fmt.Sprintf(headerStr, depInfo.URL)
    },
}

var goModCache = filepath.Join(build.Default.GOPATH, "pkg", "mod")

func Template(dependencies *dependency.List, templatePath, outputPath string) error {
    funcMap := template.FuncMap{
        "currentYear":      CurrentYear,
        "line":             Line,
        "licenceText":      LicenceText,
        "revision":         Revision,
        "canonicalVersion": CanonicalVersion,
    }
    tmpl, err := template.New(filepath.Base(templatePath)).Funcs(funcMap).ParseFiles(templatePath)
    if err != nil {
        return fmt.Errorf("failed to parse template at %s: %w", templatePath, err)
    }
    w, cleanup, err := mkWriter(outputPath)
    if err != nil {
        return fmt.Errorf("failed to create output file %s: %w", outputPath, err)
    }
    //
    return fmt.Sprintf(headerStr, depInfo.URL)
}


defer cleanup()

if err := tmpl.Execute(w, dependencies); err != nil {
    return fmt.Errorf("failed to render template: %w", err)
}

return nil
}

func mkWriter(path string) (io.Writer, func(), error) {
    if path == "-" {
        return os.Stdout, func() {}, nil
    }

    f, err := os.Create(path)
    return f, func() { f.Close() }, err
}

/* Template functions */

var regexCanonical = regexp.MustCompile(`^(?P<version>v[0-9.]+)`)  
var regexRevision = regexp.MustCompile(`[^-]+-[^-]+-(?P<revision>[a-fA-Z0-9]+)`)  

// Canonical ensures that the version string contains a minor and patch part  
// and discards any additional metadata from the version string.  
// For example:  
// v1 => v1.0.0  
// v1.2 => v1.2.0  
// v1.2.3+incompatible => v1.2.3  
// v1.2.3-20200707-123456abc => v1.2.3  
func CanonicalVersion(in string) string {
    matches := regexCanonical.FindStringSubmatch(in)
    version := regexGroup(regexCanonical, "version", matches)
    return semver.Canonical(version)
}

// Revision returns the hash from version strings following this format: <version>-<timestamp>-<hash>  
// If the string does not match this pattern an empty string is returned.  
// For example:  
// v1.2.3 =>  
// v1.2.3-20200707-123456abc => 123456abc  
func Revision(in string) string {
    matches := regexRevision.FindStringSubmatch(in)
    version := regexGroup(regexRevision, "revision", matches)
    return version
}
func regexGroup(regex *regexp.Regexp, groupName string, matches []string) string {
    for i, name := range regex.SubexpNames() {
        if i > 0 && name == groupName && i < len(matches) {
            return matches[i]
        }
    }
    return ""
}

func CurrentYear() string {
    return strconv.Itoa(time.Now().Year())
}

func Line(ch string) string {
    return strings.Repeat(ch, 80)
}

func LicenceText(depInfo dependency.Info) string {
    if depInfo.LicenceFile == "" {
        return "No licence file provided."
    }

    var buf bytes.Buffer
    additionalLicenceText(&buf, depInfo)

    if depInfo.LicenceTextOverrideFile != "" {
        buf.WriteString("Contents of provided licence file")
    } else {
        buf.WriteString("Contents of probable licence file ")
        buf.WriteString(strings.Replace(depInfo.LicenceFile, goModCache, "$GOMODCACHE", -1))
    }
    buf.WriteString("\n\n")

    f, err := os.Open(depInfo.LicenceFile)
    if err != nil {
        log.Fatal("Failed to open licence file %s: %v", depInfo.LicenceFile, err)
    }
    defer f.Close()

    _, err = io.Copy(&buf, f)
    if err != nil {
        log.Fatal("Failed to read licence file %s: %v", depInfo.LicenceFile, err)
    }

    return buf.String()
}

func additionalLicenceText(buf *bytes.Buffer, depInfo dependency.Info) {

func TestDetect(t *testing.T) {

testCases := []struct {
    name             string
    includeIndirect bool
    overrides        dependency.Overrides
    wantDependencies func() *dependency.List
    wantErr          bool
}{

    name:            "All",
    includeIndirect: true,
    overrides: map[string]dependency.Info{
        "github.com/gorhill/cronexpr": {Name: "github.com/gorhill/cronexpr", LicenceType: "GPL-3.0"},
    },
}
wantDependencies: func() *dependency.List {
    return &dependency.List{
        Indirect: mkIndirectDeps(),
        Direct:   mkDirectDeps(),
    }
},
}.
{
    name:        "DirectOnly",
    includeIndirect: false,
    overrides: map[string]dependency.Info{
        "github.com/gorhill/cronexpr": {Name: "github.com/gorhill/cronexpr", LicenceType: "GPL-3.0"},
    },
    wantDependencies: func() *dependency.List {
        return &dependency.List{
            Direct: mkDirectDeps(),
        }
    },
},
{
    name:        "WithOverrides",
    includeIndirect: true,
    overrides: map[string]dependency.Info{
        "github.com/russross/blackfriday/v2": {Name: "github.com/russross/blackfriday/v2", LicenceType: "MIT"},
        "github.com/gorhill/cronexpr": {Name: "github.com/gorhill/cronexpr", LicenceType: "GPL-3.0"},
    },
    wantDependencies: func() *dependency.List {
        deps := &dependency.List{
            Indirect = append(deps.Indirect, d)
        }
    },
    for _ := range mkIndirectDeps() {
        d := d
        if d.Name == "github.com/davecgh/go-spew" {
            d.URL = "http://example.com/go-spew"
        }
        deps.Indirect = append(deps.Indirect, d)
    }
    return deps
name: "WithValidLicenceFileOverride",
includeIndirect: true,
overrides: map[string]dependency.Info{
  "github.com/gorhill/cronexpr": {Name: "github.com/gorhill/cronexpr", LicenceFile: "GPLv3"},
},
wantDependencies: func() *dependency.List {
  return &dependency.List{
    Indirect: mkIndirectDeps(),
    Direct:   mkDirectOverridenDeps(),
  },
},

name: "WithInvalidLicenceFileOverride",
includeIndirect: true,
overrides: map[string]dependency.Info{
  "github.com/davecgh/go-spew":         {Name: "github.com/davecgh/go-spew", LicenceFile: "/path/to/nowhere"},
  "github.com/russross/blackfriday/v2": {Name: "github.com/russross/blackfriday/v2", LicenceFile: "/path/to/nowhere"},
},
wantErr: true,
},

name: "LicenceNotAllowed",
includeIndirect: true,
overrides: map[string]dependency.Info{
  "github.com/davecgh/go-spew":         {Name: "github.com/davecgh/go-spew", LicenceType: "Totally Legit License 2.0"},
  "github.com/russross/blackfriday/v2": {Name: "github.com/russross/blackfriday/v2", LicenceType: "MIT"},
  "github.com/davecgh/go-gk":           {Name: "github.com/davecgh/go-spew", LicenceType: "UNKNOWN"},
},
wantErr: true,
},

// create classifier
classifier, err := NewClassifier"
require.NoError(t, err)

for _, tc := range testCases {
  t.Run(tc.name, func(t *testing.T) {
    f, err := os.Open("testdata/deps.json")
    require.NoError(t, err)
    defer f.Close()
rules, err := LoadRules("testdata/rules.json")
require.NoError(t, err)

gotDependencies, err := Detect(f, classifier, rules, tcoverrides, tc.includeIndirect)
if tc.wantErr {
  require.Error(t, err)
  return
}
require.NoError(t, err)
require.Equal(t, tc.wantDependencies(), gotDependencies)
}

func mkIndirectDeps() []dependency.Info {
  return []dependency.Info{
    
    {Name: "github.com/davecgh/go-spew",
     Version: "v1.1.0",
     VersionTime: "2016-10-29T20:57:26Z",
     Dir: "testdata/github.com/davecgh/go-spew@v1.1.0",
     LicenceType: "ISC",
     LicenceFile: "testdata/github.com/davecgh/go-spew@v1.1.0/LICENCE.txt",
     URL: "https://github.com/davecgh/go-spew",
    },

    {Name: "github.com/dgryski/go-minhash",
     Version: "v0.0.0-20170608043002-7fe510aff544",
     VersionTime: "2017-06-08T04:30:02Z",
     Dir: "testdata/github.com/dgryski/go-minhash@v0.0.0-20170608043002-7fe510aff544",
     LicenceType: "MIT",
     LicenceFile: "testdata/github.com/dgryski/go-minhash@v0.0.0-20170608043002-7fe510aff544/licence",
     URL: "https://github.com/dgryski/go-minhash",
    },

    {Name: "github.com/dgryski/go-spooky",
     Version: "v0.0.0-20170606183049-ed3d087f40e2",
     VersionTime: "2017-06-06T18:30:49Z",
     Dir: "testdata/github.com/dgryski/go-spooky@v0.0.0-20170606183049-ed3d087f40e2",
     LicenceType: "MIT",
     LicenceFile: "testdata/github.com/dgryski/go-spooky@v0.0.0-20170606183049-ed3d087f40e2/COPYING",
     URL: "https://github.com/dgryski/go-spooky",
    },
  }
}
func mkDirectDeps() []dependency.Info {
    return []dependency.Info{
        {
            Name:        "github.com/ekzhu/minhash-lsh",
            Version:     "v0.0.0-20171225071031-5c06ee8586a1",
            VersionTime: "2017-12-25T07:10:31Z",
            Dir:         "testdata/github.com/ekzhu/minhash-lsh@v0.0.0-20171225071031-5c06ee8586a1",
            LicenceType: "MIT",
            LicenceFile: "testdata/github.com/ekzhu/minhash-lsh@v0.0.0-20171225071031-5c06ee8586a1/licence.txt",
            URL:         "https://github.com/ekzhu/minhash-lsh",
        },
        {
            Name:        "github.com/russross/blackfriday/v2",
            Version:     "v2.0.1",
            VersionTime: "2018-09-20T17:16:15Z",
            Dir:         "testdata/github.com/russross/blackfriday/v2@v2.0.1",
            LicenceType: "BSD-2-Clause",
            LicenceFile: "testdata/github.com/russross/blackfriday/v2@v2.0.1/LICENSE.rst",
            URL:         "https://github.com/russross/blackfriday",
        },
        {
            Name:        "github.com/gorhill/cronexpr",
            Version:     "v0.0.0-20161205141322-d520615e531a",
            VersionTime: "2016-12-05T14:13:22Z",
            Dir:         "testdata/github.com/gorhill/cronexpr@v0.0.0-20161205141322-d520615e531a",
            LicenceType: "GPL-3.0",
            LicenceFile: "",
            URL:         "https://github.com/gorhill/cronexpr",
        }
    }
}

func mkDirectOverridenDeps() []dependency.Info {
    return []dependency.Info{
        {
            Name:        "github.com/ekzhu/minhash-lsh",
            Version:     "v0.0.0-20171225071031-5c06ee8586a1",
            VersionTime: "2017-12-25T07:10:31Z",
            Dir:         "testdata/github.com/ekzhu/minhash-lsh@v0.0.0-20171225071031-5c06ee8586a1",
            LicenceType: "MIT",
            LicenceFile: "testdata/github.com/ekzhu/minhash-lsh@v0.0.0-20171225071031-5c06ee8586a1/licence.txt",
            URL:         "https://github.com/ekzhu/minhash-lsh",
        },
        {
            Name:        "github.com/russross/blackfriday/v2",
            Version:     "v2.0.1",
            VersionTime: "2018-09-20T17:16:15Z",
            Dir:         "testdata/github.com/russross/blackfriday/v2@v2.0.1",
            LicenceType: "",
            LicenceFile: "",
            URL:         "https://github.com/russross/blackfriday",
        }
    }
}
func TestDetermineURL(t *testing.T) {

testCases := []struct {
    name   string
    override string
    modPath string
    want   string
} {

    name: "WithOverride",
    override: "https://go.elast.co/dep",
    modPath: "github.com/elastic/dep/path",
    want: "https://go.elast.co/dep",
},

    name: "WithNonGitHubPath",
    modPath: "go.uber.org/zap",
    want: "https://go.uber.org/zap",
},

    name: "WithValidGitHubPath",
    modPath: "github.com/elastic/cloud-on-k8s",
    want: "https://github.com/elastic/cloud-on-k8s",
},

    name: "WithInvalidGitHubPath",
    modPath: "github.com/elastic/cloud-on-k8s/api/v1/elasticsearch",
    want: "https://github.com/elastic/cloud-on-k8s",
},

    name: "WithK8sPath",
    modPath: "k8s.io/apimachinery",
    want: "https://github.com/kubernetes/apimachinery",
}
for _, tc := range testCases {
    t.Run(tc.name, func(t *testing.T) {
        have := determineURL(tc.override, tc.modPath)
        require.Equal(t, tc.want, have)
    })
}

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persons to whom the Software is furnished to do so, subject to the following conditions:
package detector

import (  
    "testing"  
    "github.com/stretchr/testify/assert"  
    "github.com/stretchr/testify/require"
)

func TestLoadRules(t *testing.T) {  
t.Run("embedded", func(t *testing.T) {  
    rules, err := LoadRules(""")  
    require.NoError(t, err)  
    require.NotNil(t, rules)  
    assert.True(t, len(rules.AllowList) > 0, rules)
  })

  require.NoError(t, err)  
  require.NotNil(t, rules)  
  assert.True(t, len(rules.AllowList) > 0, rules)
})

t.Run("external", func(t *testing.T) {

})
rules, err := LoadRules("testdata/rules.json")
require.NoError(t, err)
require.NotNil(t, rules)
assert.True(t, len(rules.AllowList) > 0)
}
}

func TestRulesAllowList(t *testing.T) {
    rules, err := LoadRules("testdata/rules.json")
    require.NoError(t, err)
    require.True(t, rules.IsAllowed("Apache-2.0"))
    require.False(t, rules.IsAllowed("WTFPL"))
}

func TestRulesMaybeList(t *testing.T) {
    rules, err := LoadRules("testdata/rules.json")
    require.NoError(t, err)
    require.True(t, rules.IsAllowed("GPL-3.0"))
    require.False(t, rules.IsAllowed("WTFPL"))
}

name: Build
on:
push:
    branches:
        - "*"
pull_request:
    branches:
        - "*"
jobs:

build:
    name: Build
    runs-on: ubuntu-latest
    steps:

    - name: Set up Go 1.14
      uses: actions/setup-go@v2-beta
      with:
        go-version: 1.14
        id: go

    - name: Install pkger
      run: |
        go get -u github.com/markbates/pkger/cmd/pkger
- name: Check out code into the Go module directory
  uses: actions/checkout@v1

- name: Generate assets
  run: |
    go generate ./...

- name: Run tests
  run: go test -v ./...

- name: Build
  run: go build -o bin/go-licence-detector -v .

module go.elastic.co/go-licence-detector

go 1.13

require (
  github.com/cyphar/filepath-securejoin v0.2.2
  github.com/google/licenseclassifier v0.0.0-20200402202327-879cb1424de0
  github.com/karrick/godirwalk v1.15.6
  github.com/markbates/pkgger v0.17.0
  github.com/pkg/errors v0.8.1 // indirect
  github.com/sergi/go-diff v1.1.0 // indirect
  github.com/stretchr/testify v1.6.1
  golang.org/x/mod v0.3.0
  golang.org/x/sync v0.0.0-20200317015054-43a5402ce75a
)

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================================================================================
Third party libraries used by the go-licence-detector project
================================================================================

Module : github.com/cyphar/filepath-securejoin
Version : v0.2.2
Time    : 2018-09-05T11:08:08Z
Licence : BSD-3-Clause

Contents of probable licence file $GOMODCACHE/github.com/cyphar/filepath-securejoin@v0.2.2/LICENSE:

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-------------------------------------------------------------------------------
Module : github.com/karrick/godirwalk
Version : v1.15.6
Time : 2020-04-08T22:16:01Z
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Module : github.com/markbates/pkger
Version : v0.17.0
Time    : 2020-06-03T18:03:53Z
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Module : github.com/stretchr/testify
Version : v1.6.1
Time    : 2020-06-05T10:48:45Z
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--------------------------------------------------------------------------------
Module   : golang.org/x/sync
Version  : v0.0.0-20200317015054-43a5402ce75a
Time     : 2020-03-17T01:50:54Z
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Go Licence Detector
===================
This is a tool designed to generate licence notices and dependency listings for Go projects at Elastic. It parses the output of `go list -m -json all` to produce its output.

```go get go.elastic.co/go-licence-detector```
```
## Usage
```
```
go-licence-detector [FLAGS]
```

Flags:
- `depsOut` string
  Path to output the dependency list.
- `depsTemplate` string
  Path to the dependency list template file. (default "example/templates/dependencies.asciidoc.tmpl")
- `in` string
  Dependency list (output from go list -m -json all). (default ")
- `includeIndirect` string
  Include indirect dependencies.
- `licenceData` string
  Path to the licence database. Uses embedded database if empty.
- `noticeOut` string
  Path to output the notice.
- `noticeTemplate` string
  Path to the NOTICE template file. (default "example/templates/NOTICE.txt.tmpl")
- `overrides` string
  Path to the file containing override directives.
- `rules` string
  Path to file containing rules regarding licence types. Uses embedded rules if empty.
- `validate` string
  Validate results (slow).

Example:
$ go list -m -json all | go-licence-detector -includeIndirect -depsOut=dependencies.asciidoc -noticeOut=NOTICE.txt
```

If no file path is provided for `-noticeOut` or `-depsOut`, the corresponding output will not be generated.

## Adding rules

Allowed licence types can be specified using a JSON file with the following structure:

```json
{
  "allowlist": [
    "Apache-2.0",
    "MIT"
  ]
}
```

A partial list of allowed licences at Elastic is included in `assets/rules.json` and used by default if no other rules file is specified using the `-rules` flag.

## Adding overrides

In some cases, the application will not be able to detect the licence type or infer the correct URL for a dependency. When there are issues with licences (no licence file or unknown licence type), the application will fail with an error message instructing the user to add an override to continue. The overrides file is a file containing newline-delimited JSON where each line contains a JSON object bearing the following format:

- `name`: Required. Module name to apply the override to.
- `licenceFile`: Optional. Path to a file containing the licence text for this module under the module directory. It must be relative to the dependency path.
- `licenceType`: Optional. Type of licence (Apache-2.0, ISC etc.). Provide a [SPDX](https://spdx.org/licenses/) identifier.
- `licenceTextOverrideFile`: Optional. Path to a file containing the licence text for this module. Path must be relative to the `overrides.json` file.
- `url`: Optional. URL to the dependency website.

Example overrides file:

```json
["name": "github.com/bmizerany/perks", "licenceTextOverrideFile": "licences/github.com/bmizerany/perks/LICENSE"]
["name": "github.com/dgryski/go-gk", "licenceType": "MIT"]
["name": "github.com/russross/blackfriday/v2", "url": "https://gopkg.in/russross/blackfriday.v2"]
```
See `example/overrides` for the suggested structure of adding overrides.

## Validating URLs

Dependency URLs are inferred from the module path. In some rare cases, these URLs could be invalid. Passing the `-validate` flag will make the licence-detector attempt to validate each URL it detects. Please note that this process makes network requests to each of the detected URLs. Running this step in an automated fashion (such as a CI environment) is not recommended.

## Updating the licence database

The licence database file `licence.db` contains all the currently known licence types found in https://github.com/google/licenseclassifier/tree/master/licenses. In the rare case that entirely new licence types have been introduced to the codebase, follow the instructions at https://github.com/google/licenseclassifier to execute the `license_serializer` tool.

## Prerequisites

To submit a PR, please ensure you run `make generate` to ensure the NOTICE file is up to date. This may require you have `pkger` installed already, which you can do with `go get github.com/markbates/pkger/cmd/pkger`.

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// Code generated by pkger; DO NOT EDIT.

// +build !skippkger

package detector

import (
    "github.com/markbates/pkger"
    "github.com/markbates/pkger/pkging/mem"
)
Open Source Used In Appdynamics_Beats_Levitate 22.8.0  338
Open Source Used In Appdynamics_Beats_Levitate 22.8.0  1118
null
Open Source Used In Appdynamics_Beats_Levitate 22.8.0  2088
Open Source Used In Appdynamics_Beats_Levitate 22.8.0  2242
name: Release
on:
  push:
    tags:
      - v*
jobs:
  release:
    name: Release
    runs-on: ubuntu-latest
    steps:
      - name: Set up Go 1.14
        uses: actions/setup-go@v2-beta
        with:
          go-version: 1.14
      - name: Install pkger
        run: |
          go get -u github.com/markbates/pkger/cmd/pkger
      - name: Check out code into the Go module directory
        uses: actions/checkout@v1
      - name: Generate assets
        run: |
          go generate ./...
      - name: Run tests
        run: go test -v ./...
      - name: Build
        run: go build -o bin/go-licence-detector -v .
      - name: Create release
        id: create_release
        uses: actions/create-release@v1
        env:
          GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
```go
package render

import "testing"

func TestCanonical(t *testing.T) {
    cases := map[string]string{
        "v1":        "v1.0.0",
        "v1.1":      "v1.1.0",
        "v3.2.1":    "v3.2.1",
        "v3.2.1-meta": "v3.2.1",
        "v1-meta":  "v1.0.0",
        "v1.2-meta": "v1.2.0",
        "v1.2.3-meta": "v1.2.3",
        "v1+meta":   "v1.0.0",
        "v1.2+meta": "v1.2.0",
        "v1.2.3+meta": "v1.2.3",
        "v1.2.3+incompatible": "v1.2.3",
        "v1.2.3-20200707-123456abc": "v1.2.3",
    }

    for in, want := range cases {
        t.Run(in, func(t *testing.T) {
            got := CanonicalVersion(in)
            if got != want {
                t.Errorf("Conversion mismatch for %q. Want: %q, Got: %q", in, want, got)
            }
        })
    }
}

func TestRevision(t *testing.T) {
    cases := map[string]string{
        "v1":        "",
        "v3.2.1-meta": "",
    }

    for in, want := range cases {
        t.Run(in, func(t *testing.T) {
            got := RevisionVersion(in)
            if got != want {
                t.Errorf("Conversion mismatch for %q. Want: %q, Got: %q", in, want, got)
            }
        })
    }
}
```

"v1-meta": "",
"v1.2-meta": "",
"v1.2.3-meta": "",
"v1+meta": "",
"v1.2+meta": "",
"v1.2.3+meta": "",
"v1.2.3+incompatible": "",
"v1.2.3-20200707-123456abc": "123456abc",
"v1.2.3-20200707-123456abc-meta": "123456abc",
"v1.2.3-20200707-123456abc+meta": "123456abc",
"v1.2.3-20200707-123456abc+incompatible": "123456abc",
"v1.2.3-20200707-oops123456abc": "",
}

for in, want := range cases {
    t.Run(in, func(t *testing.T) {
        got := Revision(in)
        if got != want {
            t.Errorf("Conversion mismatch for %q. Want: %q, Got: %q", in, want, got)
        }
    })
}

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

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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---

layout: docs
Nomad Enterprise Licensing

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

Click [here](https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise or [here](https://nomadproject.io/trial) to get a trial license.

--> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open source version of Nomad. Servers running the open source version of Nomad will panic if they are joined to a Nomad Enterprise cluster. See issue [gh-9958] for more details.

## Expiring Licenses

Nomad Enterprise license have an expiration time. You can read the license on a server with the `nomad license get` command:

```
$ nomad license get
Product       = nomad
License Status = valid
License ID     = eaaecbd5-b598-4fa4-b649-bb234bf49fa3
Customer ID    = ae94bddd-39bf-4c58-bf80-8a9468b0467c
Issued At      = 2021-03-29 14:47:29.024191 -0400 EDT
Expires At     = 2021-03-29 20:47:29.024191 -0400 EDT
Datacenter     = *
Modules:
  governance-policy
  multicluster-and-efficiency
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Audit Logging
  Sentinel Policies
  Multiregion Deployments
  Automated Backups
  Multi-Vault Namespaces
  Dynamic Application Sizing
```
As a Nomad Enterprise license approaches its expiration time, Nomad servers will periodically log a warning message about the approaching expiration. Below shows log excerpts of the warnings.

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

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

Note that if the server is restarted with an expired license, it will immediately stop.

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

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

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

See the [license commands](/docs/commands/license) for more information on interacting with the Enterprise License.
This FAQ is for the license changes introduced in Nomad Enterprise version v1.1.0+ent. Nomad Enterprise automatically load Nomad licenses when a Nomad server agent starts using Nomad Enterprise.

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

Starting with Nomad Enterprise v1.1.0, the license enablement process is different. HashiCorp Enterprise servers will no longer start without a license. When the server instance initializes the license watcher, the server reads 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 resources are available?

The list below is a great starting point for learning more about the license changes introduced in Nomad Enterprise v1.1.0

- [v1.1.0 Upgrade Guide](https://www.nomadproject.io/docs/upgrade/upgrade-specific#enterprise-licenses)

- [Nomad License Documentation](https://www.nomadproject.io/docs/enterprise/license)

- [License configuration values documentation](https://www.nomadproject.io/docs/configuration/server#license_path)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license)

## Q: Does this affect Nomad or older versions of Nomad?

This change only affects Nomad Enterprise version v1.1.0+ent and later.
## Q: Does the license have to be present on Nomad client nodes?

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

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

If you follow the steps in the [upgrade guide](https://www.nomadproject.io/docs/upgrade/upgrade-specific#enterprise-licenses), but have misconfigured the licensing steps, the server instances will stop during boot-up sequence.

If you do not check cluster health after adding new servers, and verify that the new servers have joined properly, then you may accidentally take down old servers without replacing them.

If you are using a trial license in production, this could cause issues as the cluster will fail to start once the trial expires.

If you have built automation around `nomad license put`, this command will fail as it has been removed from Nomad v1.1.0+.

## Q: What are some other gotchas?

You might not have access to your organization's Nomad license. The 6-hour temporary license window is now removed, and a license is required for proper boot-up. Running `nomad agent -dev` without a license will fail.

## Q: How can a user get their existing license to put on disk for an upgrade?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. You can use `nomad license get` to retrieve information about the license, but not the license itself.

## Q: What happens when a license expires?

If a license expires after a server node joins the cluster, the existing Enterprise features will continue to operate until a grace period expires.

The grace period duration is 1 day, and upon the end of the grace period the Nomad servers will shut down.

## Q: Will on-prem binaries with baked-in licenses work?

There is no impact to baked-in licensed binaries.

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

Licenses can be reused on different nodes and different clusters.
## Q: Where can users get a trial license for Nomad?

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

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

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

## Q: May I downgrade Nomad Enterprise from v1.1.0 to an earlier version?

Nomad cannot safely be rolled back to an earlier version.
This is not a supported operation due to the Nomad state store not having forward compatibility. The end result could be a crash loop.

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

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

---

# License Operator HTTP API

The `/operator/license` endpoints allow for retrieving the Nomad Enterprise License.

---

## Get Nomad Enterprise License Info

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/v1/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>operator:read</code></td>
</tr>
</tbody>
</table>

### Sample Request

```shell-session
$ curl
```
### Sample Response

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

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

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

    General Options:

    ` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)
    return helpText
}

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

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

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

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

func (c *LicenseGetCommand) Run(args []string) int {
    flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
    flags.Usage = func() { c.Ui.Output(c.Help()) }
    if err := flags.Parse(args); err != nil {
        c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
        return 1
    }

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

return OutputLicenseReply(c.Ui, resp)
---
layout: docs
page_title: 'Commands: license'
description: |
The license command is used to interact with an enterprise license.
---

# Command: license

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

The `license` command provides cluster level management of the Nomad Enterprise license.

If ACLs are enabled then a token with operator privileges may be required in order to use this command.

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

## Usage

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

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

- `[license get]` - Get the current license

```
[get]: /docs/commands/license/get 'Get the current license'
```

# Command: license get

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

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

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

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

## General Options

@include 'general_options_no_namespace.mdx'

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

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

```
shell-session
$ nomad license get -stale=true
```
Product = nomad
License Status = valid
License ID = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At = 2021-03-31 14:21:16,969,610,774 +0000 UTC
Expires At = 2022-04-01 00:00:00 +0000 UTC
Terminates At = 2022-04-04 00:00:00 +0000 UTC
Datacenter = *

Modules:
    governance-policy
    multicluster-and-efficiency

Licensed Features:
    Automated Upgrades
    Enhanced Read Scalability
    Redundancy Zones
    Namespaces
    Resource Quotas
    Audit Logging
    Sentinel Policies
    Multiregion Deployments
    Automated Backups
    Multi-Vault Namespaces

package command

import (
    "fmt"
    "strings"
    "time"
    "github.com/hashicorp/nomad/api"
    "github.com/mitchellh/cli"
)

var _ cli.Command = &LicenseCommand{

type LicenseCommand struct {
    Meta
}

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

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

$ nomad license get

return strings.TrimSpace(helpText)
}

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

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

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

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

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired bool) {
    expStr := ""
    if expired {
        expStr = fmt.Sprintf("Expired At|\s", lic.ExpirationTime.String())
    } else {
        expStr = fmt.Sprintf("Expires At|\s", lic.ExpirationTime.String())
    }

    validity := "valid"
    if expired {
        validity = "expired!"
    }
    output := []string{
        fmt.Sprintf("Product|\s", lic.Product),
        fmt.Sprintf("License Status|\s", validity),
        fmt.Sprintf("License ID|\s", lic.LicenseID),
        fmt.Sprintf("Customer ID|\s", lic.CustomerID),
        fmt.Sprintf("Issued At|\s", lic.IssueTime),
        expStr,
        fmt.Sprintf("Datacenter|\s", lic.InstallationID),
    }

    return cli.Output(ui, output)
ui.Output(formatKV(output))

if len(lic.Modules) > 0 {
    ui.Output("Modules:")
    for _, mod := range lic.Modules {
        ui.Output(fmt.Sprintf("\t%s", mod))
    }
}

if len(lic.Features) > 0 {
    ui.Output("Licensed Features:")
    for _, f := range lic.Features {
        ui.Output(fmt.Sprintf("\t%s", f))
    }
}
package command

import {
    "testing"
    "time"

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

var _ cli.Command = &LicenseGetCommand{ }

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

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

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

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

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

    ui := cli.NewMockUi()

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

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

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1.75 mattn-go-colorable v0.1.6

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1.80 rqlite v1.11.0

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1.81 golang-protobuf v1.5.2

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1.82 docker-registry 2.7.1

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1.83 govmomi 20170802-snapshot-2cad1519

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 */

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{})
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
cmd.ClientFlag.Register(ctx, f)

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)

cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
cmd.HostSystemFlag.Register(ctx, f)

f.StringVar(&cmd.name, "name", "", "Display name")
f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)
client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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*/

package simulator

import ( 
    "context" 
    "reflect" 
    "testing"

    "github.com/vmware/govmomi" 
    "github.com/vmware/govmomi/find" 
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) { 
    ctx := context.Background()
    m := VPX()

    defer m.Remove()

    err := m.Create()
    if err != nil { 
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil { 
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
    if err != nil { 
        t.Fatal(err)
    }

}
la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
    t.Fatal("invalid license")
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
m := ESX()
    defer m.Remove()

err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()
c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}
info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}
if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}
if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}
if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}", info.Labels[0].Key, info.Labels[0].Value)
}
la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}
if len(la) != 2 {
    t.Fatal("no licenses")
}
if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}
if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}
if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}", la[1].Labels[0].Key, la[1].Labels[0].Value)
}
err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}
la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

package license

import (     "context"
            "flag"

            "github.com/vmware/govmomi/govc/cli"
            "github.com/vmware/govmomi/govc/flags"
            "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag
    feature string
}

func init() {
    cli.Register("license.ls", &ls{})
```go
func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import {
    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/govmomi/vim25/types"
}

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{ })
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    return cmd.WriteResult(licenseOutput(result))
}

// From the vSphere 5.5 documentation:
// To specify the edition type and any optional functions, use
// updateLicense for ESX Server and addLicense follow by
// LicenseAssigningManager.updateAssignedLicense for VirtualCenter.

var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
}

result := make(licenseOutput, 0)
for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
    result = append(result, license)
}

return cmd.WriteResult(licenseOutput(result))

#!/usr/bin/env bats
load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$govc license.ls -json | jq -r .[0].EditionKey" != "eval" ]; then
get_key() {
    jq ".[] | select(.LicenseKey == \"$1\")"
}

get_property() {
    jq -r ".Properties[] | select(.Key == \"$1\") | .Value"
}

get_label() {
    govc license.ls -json | jq ".[] | select(.LicenseKey == \"$1\") | .Labels[] | select(.Key == \"$2\") | .Value"
}

get_nlabel() {
    govc license.ls -json | jq ".[] | select(.LicenseKey == \"$1\") | .Labels[].Key" | wc -l
}

@test "license.add" {
    esx_env
    verify_evaluation
    run govc license.add -json 00000-00000-00000-00000-00000-00000-00000-00000-00000-00002
    assert_success

    # Expect to see an entry for both the first and the second key
    assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
    assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
    esx_env
    verify_evaluation
    run govc license.remove -json 00000-00000-00000-00000-00000-00000-00000-00000-00000-00001
    assert_success
}

@test "license.ls" {
    vcsim_env
    verify_evaluation
}
run govc license.ls -json
assert_success

# Expect the test instance to run in evaluation mode
assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"
}

@test "license.decode" {
  esx_env
  verify_evaluation

  key=00000-00000-00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
  vcsim_env

  key=00000-00000-00000-00000-00000-00000-00000

  assert_equal 0 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"

  run govc license.label.set $key foo bar
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal bar "$(get_label $key foo)"

  run govc license.label.set $key biz baz
  assert_success
  run govc license.label.set $key foo bar2
  assert_success

  assert_equal 2 "$(get_nlabel $key)"
  assert_equal bar2 "$(get_label $key foo)"

  run govc license.label.set $key foo ""
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"
}
/*

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package simulator

import ( 
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{ 
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:       "Evaluation Mode",
    Properties: []types.KeyAnyValue{ 
        { 
            Key: "feature",
            Value: types.KeyValue{ 
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
    },
}
type LicenseManager struct {
    mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if r.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }

    return body
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
        return body
    }
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
        return body
    }
}
type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" { 
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type:  "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        EntityId:  req.EntityId,
        AssignedLicense: EvalLicense,
    },

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type label struct {
    *flags.ClientFlag
}

func init() {
    cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return "Set license labels."
}

Examples:
    govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
    govc license.ls -json | jq '.[] | select(.Labels[].Key == "team") | .LicenseKey'
}

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func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    if f.NArg() != 3 {
        return flag.ErrHelp
    }

    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
        LabelValue: f.Arg(2),
    }

    _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

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package license

import (  
  "context"
  "flag"

  "github.com/vmware/govmomi/govc/cli"
  "github.com/vmware/govmomi/govc/flags"
  "github.com/vmware/govmomi/license"
)

type decode struct {  
  *flags.ClientFlag  
  *flags.OutputFlag  

  feature string
}

func init() {  
  cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {  
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", ",", featureUsage)
func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }
        result = append(result, license)
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}

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*/

package license

import (
    "context"
    "strconv"
    "strings"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}
func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }
    return nil
}
_, err := methods.RemoveLicense(ctx, m.Client(), &req)
return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
req := types.UpdateLicense{
This: m.Reference(),
LicenseKey: key,
Labels: mapToKeySlice(labels),
}
res, err := methods.UpdateLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{}, err
}
return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
var mlm mo.LicenseManager
err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
if err != nil {
return nil, err
}
return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
var mlm mo.LicenseManager
err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
if err != nil {
return nil, err
}
if mlm.LicenseAssignmentManager == nil {
return nil, object.ErrNotSupported
}
am := AssignmentManager{
object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}
return &am, nil
}

type licenseFeature struct {
    name string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
If := new(licenseFeature)

f := strings.Split(feature, ":")

If.name = f[0]

if len(f) > 1 {
    var err error
    If.level, err = strconv.Atoi(f[1])
    if err != nil {
        If.name = feature
    }
}

return If
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)

        if !ok {
            continue
        }

        If := parseLicenseFeature(kv.Key)

        if If.name == feature.name && If.level >= feature.level {
            return true
        }
    }

    return false
// InfoList provides helper methods for []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

# People who can (and typically have) contributed to this repository.

#

# This script is generated by contributors.sh

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/

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Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
*/

package license

import (
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{}
    }

    func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
        cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
        cmd.ClientFlag.Register(ctx, f)
        cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
        cmd.OutputFlag.Register(ctx, f)

        f.StringVar(&cmd.id, "id", "", "Entity ID")
    }

    func (cmd *assigned) Process(ctx context.Context) error {
        if err := cmd.ClientFlag.Process(ctx); err != nil {
            return err
        }

        return license.Assign(ctx)
    }


return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
return err
}
return nil
}
func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
return err
}
m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
return err
}
assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
return err
}
return cmd.WriteResult(assignedOutput(assigned))
}
type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment
func (res assignedOutput) Write(w io.Writer) error {
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
for _, v := range res {
fmt.Fprintf(tw, "%s\t", v.EntityId)
fmt.Fprintf(tw, "%s\t", v.Scope)
fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
fmt.Fprintf(tw, "\n")
}
return tw.Flush()
}
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package license

import (
    "context"
    "flag"
    "fmt"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }

    list, err := m.List(ctx)
    if err != nil {
        return err
    }

    for _, v := range f.Args() {
        for _, l := range list {
            if v == l.LicenseKey {
                return fmt.Errorf("cannot remove license %q", v)
            }
        }
    }

    return nil
}

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*/
package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
"
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.LicenseKey)
        fmt.Fprintf(tw, "%s	", v.EditionKey)
        fmt.Fprintf(tw, "%d	", v.Used)
        fmt.Fprintf(tw, "%d	", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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import {
    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
}

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:              m.Reference(),
        Key:               key,
        Name:              name,
    }
    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    return res.ReturnVal, err
}
Entity: id,
LicenseKey: key,
EntityDisplayName: name,
}

res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
return nil, err
}

return &res.Returnval, nil

1.84 gofrs-uuid v4.0.0
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1.91 deep v1.0.7

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1.95 aws/aws-sdk-go-v2 v0.24.0

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package licensemanager

import {
    "context"
    "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "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) {
  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 = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); 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 {

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

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

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cpy
package licensemanager

import (  
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "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, 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
}

type CheckInLicenseOutput struct {

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  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 = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }

  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }

  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }

  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }

  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }

  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }

  if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
  }

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); 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 = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
import (
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "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
}

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

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func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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 = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); 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 = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "DisassociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "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

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    }

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

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    }

    func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
        if err != nil {
            return err
        }

        if err != nil {
            return err
        }
    }
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSIngerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); 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 = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "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
//
// 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
}

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}

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

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}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
return err
}  
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
}
if err = addClientUserAgent(stack); err != nil {
  return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); 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 = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
  return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
  return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "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.
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

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}

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

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}
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }

    if err = addHTTPSv4Middleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }

    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }

    if err = addClientUserAgent(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
        return err
    }

    if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "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

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}

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
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsinvoke.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsinvoke.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsinvoke.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); 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 }
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "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

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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
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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 = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorResponseCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); 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 = addRequestIdRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/aws/smithy/request-transformers"
)


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.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

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}

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

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func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  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 = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); 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 = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opAssociateLicense(region string)
    *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "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

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// 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

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}

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

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}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
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    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); 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 = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.109 blakesmith-ar 20150311-snapshot-8bd4349a

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1.111 google-go-cmp v0.5.8

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1.112 uber-go/tools 20190618-snapshot-2cfd321d

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import (
    "testing"
)

func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
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        , "MIT"
    }
}
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"MIT",
},
}
}

for _, test := range tests {
runTestUpdateData(t, test.input, test.output, test.year, test.license)
}
}

func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
actualOutput := string(
updateData([]byte(input), year, license, "Uber Technologies, Inc."))
}
if output != actualOutput {
t.Errorf("\n\nexpected:
%s
actual:
%s", output, actualOutput)
}
# update-license

This is a small tool that updates the license header for Uber’s open source Golang files.

## Installation

```
go get go.uber.org/tools/update-license
```
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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import "testing"

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

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

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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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/google/renameio - https://github.com/google/renameio

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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* gogrep - https://github.com/mvdan/gogrep

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* gosmith - https://github.com/dvyukov/gosmith

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1.134 golang-org-x-sys 20211019-snapshot-4dd72447

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1.136 weaveworks/goformation v4.1.0

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package lambda

import (    "bytes"    "encoding/json"    "fmt"

    "github.com/awslibs/goformation/v4/cloudformation/policies"
 )

// Permission AWS CloudFormation Resource (AWS::Lambda::Permission)

type Permission struct {

// Action AWS CloudFormation Property
// Required: true
Action string `json:"Action,omitempty"`

// EventSourceToken AWS CloudFormation Property
// Required: false
EventSourceToken string `json:"EventSourceToken,omitempty"`

// FunctionName AWS CloudFormation Property
// Required: true
FunctionName string `json:"FunctionName,omitempty"`

// Principal AWS CloudFormation Property
// Required: true
Principal string `json:"Principal,omitempty"`

// SourceAccount AWS CloudFormation Property
// Required: false
SourceAccount string `json:"SourceAccount,omitempty"`

// SourceArn AWS CloudFormation Property
// Required: false
SourceArn string `json:"SourceArn,omitempty"`

// AWSCloudFormationDeletionPolicy represents a CloudFormation DeletionPolicy
AWSCloudFormationDeletionPolicy policies.DeletionPolicy `json:"-"`

// AWSCloudFormationDependsOn stores the logical ID of the resources to be created before this resource
AWSCloudFormationDependsOn []string `json:"-"`

// AWSCloudFormationMetadata stores structured data associated with this resource
AWSCloudFormationMetadata map[string]interface{} `json:"-"`

// AWSCloudFormationType returns the AWS CloudFormation resource type
func (r *Permission) AWSCloudFormationType() string {
    return "AWS::Lambda::Permission"
}
// MarshalJSON is a custom JSON marshalling hook that embeds this object into
// an AWS CloudFormation JSON resource's 'Properties' field and adds a 'Type'.
func (r Permission) MarshalJSON([]byte, error) {
    type Properties Permission
    return json.Marshal(&struct {
        Type           string
        Properties     Properties
        DependsOn      []string              `json:"DependsOn,omitempty"
        Metadata       map[string]interface{} `json:"Metadata,omitempty"
        DeletionPolicy policies.DeletionPolicy `json:"DeletionPolicy,omitempty"
    }
        Type:   r.AWSCloudFormationType(),
        Properties: (Properties)(r),
        DependsOn:   r.AWSCloudFormationDependsOn,
        Metadata:   r.AWSCloudFormationMetadata,
        DeletionPolicy: r.AWSCloudFormationDeletionPolicy,
    }
}

// UnmarshalJSON is a custom JSON unmarshalling hook that strips the outer
// AWS CloudFormation resource object, and just keeps the 'Properties' field.
func (r *Permission) UnmarshalJSON([]byte) error {
    type Properties Permission
    res := &struct {
        Type           string
        Properties     *Properties
        DependsOn      []string
        Metadata       map[string]interface{}
        DeletionPolicy string
    }
    }

    dec := json.NewDecoder(bytes.NewReader(b))
    dec.DisallowUnknownFields() // Force error if unknown field is found

    if err := dec.Decode(&res); err != nil {
        fmt.Printf("ERROR: %s\n", err)
        return err
    }

    // If the resource has no Properties set, it could be nil
    if res.Properties != nil {
        *r = Permission(*res.Properties)
    }
    if res.DependsOn != nil {
        r.AWSCloudFormationDependsOn = res.DependsOn
    }
    if res.Metadata != nil {

r.AWSCloudFormationMetadata = res.Metadata
}
if res.DeletionPolicy != "" { 
  r.AWSCloudFormationDeletionPolicy = policies.DeletionPolicy(res.DeletionPolicy)
}
return nil
}

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1.139 go-mssqlldb 20200428-snapshot-06a60b6a

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1.140 fearful-symmetry/gomsr v0.0.1

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1.142 golang-github-docker-go-connections-dev 0.4.0

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1.159 smartystreets-assertions 20180927-snapshot-b2de0cb4

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1.160 golang-mock v1.6.0

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package empty_interface

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

type Empty interface{}

// This is a mock copyright header.
//
// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.
//
// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

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

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

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

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

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

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

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1.163 stackexchange-wmi 20180627-snapshot-9f32b590
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1.164 go-martini 20170121-snapshot-22fa4696
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1.165 kardianos-service 20210727-snapshot-a323c381

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package licensing

import (
    "fmt"
    "io"
    "io/ioutil"
    "os"
    "reflect"
    "strings"
    "testing"
    "time"
)

func TestContainsHeader(t *testing.T) {
    exampleHeader := []string{
        fmt.Sprintf("// Copyright %d The elastic/go-licenser Authors. All rights reserved.", time.Now().Year()),
    }

tests := []struct {
    name string
    argv []string
}

name: "ContainsHeader returns false empty line reader",
args: args{
  r: strings.NewReader(
  "package main\\n"),
  header: exampleHeader,
},
want: false,
},

name: "ContainsHeader returns false on single line reader",
args: args{
  r: strings.NewReader(
    "a reader has just one line\\n",
  ),
  header: exampleHeader,
},
want: false,
},

name: "ContainsHeader returns false on two line reader",
args: args{
  r: strings.NewReader(
    fmt.Sprintf(
      "a reader has just one line
na reader has two lines",
    ),
  ),
  header: exampleHeader,
},
want: false,
},

name: "ContainsHeader returns false on three line reader",
args: args{
  r: strings.NewReader(
    fmt.Sprintf(
      "a reader has just one line
na reader has two lines
na reader has three lines",
    ),
  ),
}
package main

[1:], time.Now().Year(),
).
).
header: exampleHeader,
},
want: true,
}

name: "ContainsHeader returns true on reader that matches the ASL license text",
args: args{
    r: strings.NewReader(`
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`)
}

want: false,
}
}

name: "ContainsHeader returns false on reader that doesn't match the license year",
args: args{
    r: strings.NewReader(`
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// be found in the LICENSE file.
`)
}

want: false,
}
}

name: "ContainsHeader returns true on reader that matches the license text",
args: args{
    r: strings.NewReader(`
// Copyright %d The elastic/go-licenser Authors. All rights reserved.
`)
}

want: true,
}

name: "ContainsHeader returns true on reader that matches the ASL license text",
args: args{
    r: strings.NewReader(`
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`)
}
package mypackage

'),

header: []string{
    '// Licensed to Elasticsearch B.V. under one or more contributor
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    '// this work for additional information regarding copyright
    '// ownership. Elasticsearch B.V. licenses this file to you under
    '// the Apache License, Version 2.0 (the "License"); you may
    '// not use this file except in compliance with the License.
    '// You may obtain a copy of the License at
    '"
    '"
    'http://www.apache.org/licenses/LICENSE-2.0
    '"
    '// Unless required by applicable law or agreed to in writing,
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    '// "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
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    '}
},

want: true,

{name: "ContainsHeader returns true on reader that matches the ASL license text after package",
 args: args{
 r: strings.NewReader("package mypackage

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    //
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    "
})}
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func somefunc() {}

header: []string{
  \[1:],
},

want: false,
}

for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    if got := ContainsHeader(tt.args.r, tt.args.header); got != tt.want {
      t.Errorf("ContainsHeader() = %v, want %v", got, tt.want)
    }
  })
}

func CreateFileObtainName(t *testing.T) (string, func()) {
  f, err := ioutil.TempFile(os.TempDir(), "TestHelperCreateFile")
  if err != nil {
    t.Errorf("failed creating temp file", err)
  }
  defer f.Close()
  return f.Name(), func() { os.Remove(f.Name()) }
func writeContents(t *testing.T, path string, content []byte) {
    info, err := os.Stat(path)
    if err != nil {
        t.Fatal(err)
    }
    if err := ioutil.WriteFile(path, content, info.Mode()); err != nil {
        t.Fatal(err)
    }
}

func TestRewriteFileWithHeader(t *testing.T) {
    simple, cleanup := CreateFileObtainName(t)
    defer cleanup()

    complex, cleanup := CreateFileObtainName(t)
    defer cleanup()

    licenseWeirdLocation, cleanup := CreateFileObtainName(t)
    defer cleanup()

    writeContents(t, complex, []byte(`
// something something
// Package main is the main drill
package main
`[1:]])

writeContents(t, licenseWeirdLocation, []byte(`
// Package main is the main drill
package main
`[1:])))

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`[1:])))

type args struct {
    path   string
    header []byte
}

tests := []struct {
    name   string
}
args    args
wantErr bool
want    []byte
{}
{
  name: "Rewrite succeeds on an empty file",
  args: args{
    path: simple,
    header: []byte("// This is the header I want to see"),
  },
  wantErr: false,
  want:    []byte("// This is the header I want to see\n"),
},
{
  name: "Rewrite succeeds with a file that has some contents",
  args: args{
    path: complex,
    header: []byte(`
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`[1:]),
  },
  wantErr: false,
  want: []byte(`
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// be found in the LICENSE file.

// something something

// Package main is the main drill
package main
`[1:]),
},
{
  name: "Rewrite succeeds with a file that has some contents",
  args: args{
    path: licenseWeirdLocation,
    header: []byte(`
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// not use this file except in compliance with the License.
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`//
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wantErr: false,

want: `byte(`

wantErr: true,

// Package main is the main drill
package main

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{name: "Rewrite fails when the file doesn't exist",
 args: args{
   path: "unexisting_file",
   header: nil,
 },
 wantErr: true,
for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        if err := RewriteFileWithHeader(tt.args.path, tt.args.header); (err != nil) != tt.wantErr {
            t.Errorf("RewriteFileWithHeader() error = %v, wantErr %v", err, tt.wantErr)
            return
        }

        if tt.want != nil {
            got, err := ioutil.ReadFile(tt.args.path)
            if err != nil {
                t.Error("failed reading contents of temp file")
                return
            }

            if !reflect.DeepEqual(got, tt.want) {
                t.Errorf("RewriteFileWithHeader() = 
%v
, want 
%v
", string(got), string(tt.want))
            }
        }
    })
}

func TestContainsHeaderLine(t *testing.T) {
    type args struct {
        r           io.Reader
        headerLines []string
    }
    tests := []struct {
        name string
        args args
        want bool
    }{
        {
            name: "ContainsHeader returns true on reader that matches some the lines",
            args: args{
                r: strings.NewReader(
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"
[1:],
            ),
            headerLines: []string{
                "elastic/go-licenser Authors. All rights reserved.",
                "// Use of this source code is governed by Apache License 2.0 that can",
                "// be found in the LICENSE file.",
            },
        },
    }
}
name: "ContainsHeader returns false on reader that matches some the lines",
args: args{
  r: strings.NewReader(
    fmt.Sprintf(`
    // Package mypackage this package does things.
    `+1:
    ),
  ),
  headerLines: []string{
    "elastic/go-licenser Authors. All rights reserved.",
    "// Use of this source code is governed by Apache License 2.0 that can",
    "// be found in the LICENSE file.",
    `+1:
  ),
  want: false,
},
}
for _, tt := range tests {
  t.Run(tt.name, func(t *testing.T) {
    if got := containsHeaderLine(tt.args.r, tt.args.headerLines); got != tt.want {
      t.Errorf("containsHeaderLine() = %v, want %v", got, tt.want)
    }
  })
}

func Test_headerBytes(t *testing.T) {
  var singleHeader = ``
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  // be found in the LICENSE file.
  `+1:
  type args struct {
    r io.Reader
  }
  tests := []struct {
    name string
    args args
    want [][]byte
  }
  {
    name: "Simple header is detected",
    args: args{[]}
package mypackage

name: "Simple header with build tag is detected",

name: "Simple header with package comments build tag is detected",

name: "duplicated header header with package comments is detected",

// Package mypackage does a lot of stuff, here's what it does
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// Package mypackage does a lot of stuff, here's what it does
package mypackage

// [1:]},
),
},
want: []byte(`
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// be found in the LICENSE file.

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// be found in the LICENSE file.

`[1:],
),
},
}

for _, tt := range tests {
    t.Run(tt.name, func(t *testing.T) {
        if got := headerBytes(tt.args.r); !reflect.DeepEqual(got, tt.want) {
            t.Errorf("headerBytes() = 
%v
, want 
%v
", string(got), string(tt.want))
        }
    })
}

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package licensing

import (
    "bufio"
    "bytes"
    "errors"
    "io"
    "io/ioutil"
    "os"
    "reflect"
    "strings"
)

var (
    startPrefixes = []string{"// Copyright", "// copyright", "// Licensed", "// licensed", "// ELASTICSEARCH CONFIDENTIAL"}
    endPrefixes = []string{"package ", "// Package ", "// +build ", "// Code generated", "// code generated"}

errHeaderIsTooShort = errors.New("header is too short")
)

// ContainsHeader reads the first N lines of a file and checks if the header
// matches the one that is expected
func ContainsHeader(r io.Reader, headerLines []string) bool {
    var found []string
    var scanner = bufio.NewScanner(r)

    for scanner.Scan() {
        found = append(found, scanner.Text())
    }

    if len(found) < len(headerLines) {
        return false
    }

    if !reflect.DeepEqual(found[:len(headerLines)], headerLines) {
        return false
    }

    return true
}

// RewriteFileWithHeader reads a file from a path and rewrites it with a header
func RewriteFileWithHeader(path string, header []byte) error {
if len(header) < 2 {
return errHeaderIsTooShort
}
info, err := os.Stat(path)
if err != nil {
return err
}
origin, err := ioutil.ReadFile(path)
if err != nil {
return err
}
data := RewriteWithHeader(origin, header)
return ioutil.WriteFile(path, data, info.Mode())
}
// RewriteWithHeader rewrites the src byte buffers header with the new header.
func RewriteWithHeader(src []byte, header []byte) []byte {
// Ensures that the header includes two break lines as the last bytes
for !reflect.DeepEqual(header[len(header)-2:], []byte("\n\n")) {
header = append(header, []byte("\n")...)
}
var oldHeader = headerBytes(bytes.NewReader(src))
return bytes.Replace(src, oldHeader, header, 1)
}
// headerBytes detects the header lines of an io.Reader contents and returns
// what it considerst to be the header as a slice of bytes.
func headerBytes(r io.Reader) []byte {
var scanner = bufio.NewScanner(r)
var replaceableHeader []byte
var continuedHeader bool
for scanner.Scan() {
var t = scanner.Text()
for i := range endPrefixes {
if strings.HasPrefix(t, endPrefixes[i]) {
return replaceableHeader
}
}
for i := range startPrefixes {
if strings.HasPrefix(t, startPrefixes[i]) {
continuedHeader = true

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if continuedHeader {
    replaceableHeader = append(replaceableHeader, []byte(t"\n")...)
}
}

return replaceableHeader
}

// containsHeaderLine reads the first N lines of a file and checks if the header
// matches the one that is expected
func containsHeaderLine(r io.Reader, headerLines []string) bool {
    var scanner = bufio.NewScanner(r)
    for scanner.Scan() {
        for i := range headerLines {
            if scanner.Text() == headerLines[i] {
                return true
            }
        }
    }
    return false
}

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1.172 pmezard-go-difflib 1.0.0

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1.173 grpc-go v1.46.2

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1.175 pq v1.10.3

1.175.1 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
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

func ConnectorWithNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c NOTICEHandler
    }
    return nil
}

// 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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1.178 gocarina/gocsv 20170505-snapshot-ffef3ffc

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1.179 go-tomb-tomb 20150422-snapshot-dd632973

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1.182 containerd-fifo v1.0.0

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1.185 mitchellh-hashstructure 20180823-snapshot-ab25296c

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1.188 goidentity 6.0.1

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1.192 go-kit-kit v0.10.0
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1.193 magefile/mage v1.11.0

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Le shortcode *Notice* permet d'afficher 4 types de message pour vous aider structurer votre contenu.

### Note
```
{{/*/ notice note */%}}
Une notice de type *note*  
{{/*/ /notice */%}}
```
s'affiche comme
```
{{ % notice note %}}
Une notice de type *note*  
{{ % /notice %}}
```

### Info
```
{{/*/ notice info */%}}
Une notice de type *info*  
{{/*/ /notice */%}}
```
s'affiche comme
```
{{ % notice info %}}
Une notice de type *info*  
{{ % /notice %}}
```

### Tip
```
{{/*/ notice tip */%}}
Une notice de type *tip*  
{{/*/ /notice */%}}
```
s'affiche comme
```
{{ % notice tip %}}
```
Une notice de type *tip*
{{% /notice %}}

### Warning

```%
{{%/* notice warning */%}}
Une notice de type *warning*
{{%/* /notice */%}}
```

s'affiche comme

{{% notice warning %}}
Une notice de type *warning*
{{% /notice %}}

---
title: Notice
description: "Disclaimers to help you structure your page"
---

The notice shortcode shows 4 types of disclaimers to help you structure your page.

### Note

```%
{{%/* notice note */%}}
A notice disclaimer
{{%/* /notice */%}}
```

renders as

{{% notice note %}}
A notice disclaimer
{{% /notice %}}

### Info

```%
{{%/* notice info */%}}
An information disclaimer
{{%/* /notice */%}}
```

renders as

{{% notice info %}}
An information disclaimer
{{notice}}

### Tip

```
{{notice tip}}
A tip disclaimer
{{notice tip}}
```

renders as

{{notice tip}}
A tip disclaimer
{{notice tip}}

### Warning

```
{{notice warning}}
A warning disclaimer
{{notice warning}}
```

renders as

{{notice warning}}
A warning disclaimer
{{notice warning}}

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1.194 beorn7-perks v1.0.1
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1.196 pierrre/gotestcover 20160517-snapshot-924dca7d

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1.197 yaml-for-go 20210109-snapshot-496545a6

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1.198 h2non/filetype v1.1.1

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1.199 gobolang-org-x-time 20210721-snapshot-1f47c861

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1.200 kubernetes-api v0.23.0

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1.216 go-cfclient 20190808-snapshot-35bcce23

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1.218 client-go v0.23.0

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1.219 uber-go-atomic v1.8.0

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1.221 gopkg.in/jcmturner/aescts.v1 v1.0.1

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1.223 sanathkr/yaml 20180712-snapshot-0056894f

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1.226 hashicorp-go-uuid v1.0.2

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1.228 oklog-ulid v1.3.1

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1.231 stretchr-objx v0.2.0

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1.232 googlecloudgo v0.97.0

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package compute

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

gax "github.com/googleapis/gax-go/v2"  
"google.golang.org/api/googleapi"  
"google.golang.org/api/option"  
"google.golang.org/api/option/internaloption"  
httptransport "google.golang.org/api/transport/http"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
"google.golang.org/grpc"  
"google.golang.org/grpc/metadata"  
"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
  Get [gax.CallOption  
  TestIamPermissions [gax.CallOption
}
// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

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

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

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

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

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

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

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

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

    // The http client.
    httpClient *http.Client

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

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

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

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

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

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

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

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

  if err != nil {
    return nil, err
  }
  httpReq = httpReqWithContext(ctx)
  // Set the headers
  for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
  }

  // Send the request and handle the response
  resp, err := httpReq Do()
  if err != nil {
    return nil, err
  }
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

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

    baseUrl, _ := url.Parse(c.endpoint)

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

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

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

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.LicenseCode{}
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
// Set the headers
for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

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

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

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

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derive (compute_test)
"context"

compute "cloud.google.com/go/compute/apiv1"
"google.golang.org/api/iterator"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
}

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
    
    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_GetIamPolicy() {
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
    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() {
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    resp, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func Example LICensesClient_TestIamPermissions()
{
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

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

    package compute_test

    import {
        "context"
        "cloud.google.com/go/compute/apiv1"
        computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    }

    func Example NewLicenseCodesRESTClient()
{
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ est.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp
}

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

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

gax "github.com/googleapis/gax-go/v2"  "google.golang.org/api/googleapi"  "google.golang.org/api/iterator"  "google.golang.org/api/option"  "google.golang.org/api/option/internaloption"  httptransport "google.golang.org/api/transport/http"  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  "google.golang.org/grpc"  "google.golang.org/grpc/metadata"  "google.golang.org/protobuf/encoding/protojson"  "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

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

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

// ErrNotSupported error indicates that the function is not supported by the current client.
var ErrNotSupported = errors.New("method not supported")
TestIAMPermissions(context.Context, *computepb.TestIAMPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

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

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

// Wrapper methods routed to the internal client.

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

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

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

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

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

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

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

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

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

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

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

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// The http client.
httpClient *http.Client

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

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
  clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
  httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
  if err != nil {
    return nil, err
  }

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

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

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

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

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

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

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
baseUrl, _ := url.Parse(c.endpoint)
params := url.Values{}
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}
baseUrl.RawQuery = params.Encode()

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// 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, _ := url.Parse(c.endpoint)

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

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{
    
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}

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

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

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

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

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{

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

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}
baseUrl, _ := url.Parse(c.endpoint)
params := url.Values{
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
baseUrl.RawQuery = params.Encode()

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

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

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

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

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

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

        params := url.Values{
        if req != nil & req.Filter != nil {
        }
        if req != nil & req.MaxResults != nil {

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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 {
}
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, "", err
}

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

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

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

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

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

return ", err
}

it.items = append(it.items, items...)
return nextPageToken, nil

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
    if err != googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
    return
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
        req.GetResource())

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

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

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

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

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

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

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

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

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

return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

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

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

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1.236 opencontainers-go-digest 1.0.0

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package hooks

import (
    "bytes"
    "io/ioutil"
    "os/exec"
    "runtime"
    "testing"
    "golang.org/x/tools/internal/testenv"
)

func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 15)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unixes")
    }
    tmp, err := ioutil.TempFile("", 
    if err != nil {
        t.Fatal(err)
    }
    tmp.Close()

    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
        t.Fatal("generating licenses failed: %q, %v", out, err)
    }

    got, err := ioutil.ReadFile(tmp.Name())
    if err != nil {
        t.Fatal(err)
    }
    want, err := ioutil.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/hooks` from the gopls module.")
}

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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "io/ioutil"
    "path/filepath"
    "regexp"
    "strings"
)

func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        if d.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            // Skip any directory that starts with an underscore, as the go
            // command would.
            if strings.HasPrefix(d.Name(), "_") {
                return filepath.SkipDir
            }
            return nil
        }
        needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            return err
        }
        return []string{
            path + `// Copyright 2020 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.`,
        }
        files = append(files, path)
        return nil
    })
    return files, nil
}

// checkFile returns true if a file needs a copyright notice.
func checkFile(dir string, path string) (needsCopyright bool, err error) {
    // TODO: Implement copyright checking logic
    return false, nil
}
files = append(files, path)
}
return nil
}
return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d\{4\} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
// Only check Go files.
if !strings.HasSuffix(filename, "go") {
return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
return false, nil
}
// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
return false, nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
// The copyright should appear before the package declaration.
if c.Pos() > parsed.Package {
break
}
if copyrightRe.MatchString(c.Text()) {
shouldAddCopyright = false
break
}
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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//go:generate ./gen-licenses.sh licenses.go
package hooks

const licensesText = `
    -- github.com/BurntSushi/toml COPYING --

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//go:build go1.18
/+build go1.18

package copyright

import (
    "os"
    "path/filepath"
    "strings"
    "testing"
)

func TestToolsCopyright(t *testing.T) {
cwd, err := os.Getwd()
if err != nil {
t.Fatal(err)
}

tools := filepath.Dir(cwd)
if !strings.HasSuffix(filepath.Base(tools), "tools") {
t.Fatal("current working directory is %s, expected tools", tools)
}

files, err := checkCopyright(tools)
if err != nil {
t.Fatal(err)
}
if len(files) > 0 {
t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
}

1.241 azure-azure-sdk-for-go v59.0.0
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1.245 jsonpatch v4.12.0

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*/
(By Douglas Crockford <douglas@crockford.com>)

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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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1.263 jsoniter-go v1.1.12

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1.264 go-xerial-snappy 20180824-snapshot-776d5712

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1.265 wheelcomplex/gosigar v0.14.2

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1.266 gokrb v7.5.0

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    lib/krb5/kadm5/kadm_host_srv_names.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.270 github.com/moby/spdystream v0.2.0

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tomb - support for clean goroutine termination in Go.

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1.272 fearful-symmetry/gorapl v0.0.4

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