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Appdynamics_Beats_Levitate 8.0.0-rc1

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1.5 pq v1.10.3

1.5.1 Available under license:

//go:build go1.10
// +build go1.10

package pq

import (  
    "context"  
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}
SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.

Note: Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.

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

NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.

```
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}
```

Connect calls the underlying connector's connect method and then sets the notice handler.

```
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}
```

ConnectorNoticeHandler returns the currently set notice handler, if any. If the given connector is not a result of ConnectorWithNoticeHandler, nil is returned.

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

ConnectorWithNoticeHandler creates or sets the given handler for the given connector. If the given connector is a result of calling this function previously, it is simply set on the given connector and returned. Otherwise, this returns a new connector wrapping the given one and setting the notice handler. A nil notice handler may be used to unset it.

The returned connector is intended to be used with database/sql.OpenDB.
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
if c, ok := c.(*NoticeHandlerConnector); ok {
    c.noticeHandler = handler
    return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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1.6 go-testify v1.5.0
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1.7 go.googlesource.com/tools 20190524-
snapshot-a101b041

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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, 17)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unices")
    }
    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)
    }
}
```go
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
    })  
    return files, err
}
```
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
    }
    return shouldAddCopyright, nil
}
if copyrightRe.MatchString(c.Text()) {
    shouldAddCopyright = false
    break
}
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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, ","))
}
}
1.8 go-ansiterm 20170929-snapshot-d6e3b332

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1.9 golang-org-x-oauth2 20210219-snapshot-9bb90497

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1.11 prometheus-common v0.10.0

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package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
)
var sentinels = []string{
  "Copyright",
  "Google",
  "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
  t.Parallel()
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
      return err
    }
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
      return nil
    }
    if strings.HasSuffix(path, ".pb.go") {
      // .pb.go files are generated from the proto files.
      // .proto files must have license headers.
      return nil
    }
    if path == "bigtable/cmd/cbt/cbtdoc.go" {
      // Automatically generated.
      return nil
    }
    if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
      // BSD license, which is compatible, is embedded in the file.
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    src = src[:300] // Ensure all of the sentinel values are at the top of the file.
    // Find license
    for _, sentinel := range sentinels {
      if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
      }
    }
  })
}

"testing"
if err != nil {
    t.Fatal(err)
}

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1.16 go.googlesource.com/tools 20191029-snapshot-b9c20apec

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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, 17)

if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
t.Skip("generating licenses only works on Unices")
}
tmp, err := ioutil.TempFile("", ")
if err != nil {
t.Fatal(err)
Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1

```go
// Copyright 2020 The Go Authors. All rights reserved.
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//go:build go1.18
// +build go1.18

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".           return err       }       files = append(files, path)   })   return files, err }
```
if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
}
// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
})
return files, err
}

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

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

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?
`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text()); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
-- [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.Fatalf("current working directory is %s, expected tools", tools)
}
files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}
if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, ",\n"))
}

1.17 google-go-cmp v0.5.2
1.17.1 Available under license:

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1.18 go.googlesource.com/tools 20200514-snapshot-7d3b6ebf
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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, 17)

    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.Fatalf("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) (files []string, err 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
        }
        var needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            files = append(files, path)
        }
        return nil
    })
    return
}
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/”) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

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

1.19 hashicorp-go-multieerror v1.0.0
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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.26 go.googlesource.com/tools v0.1.5
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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, 17)

    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.Fatalf("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 {
            files = append(files, path)
        }
        return nil
    })
    return files, nil
}
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
            %s", strings.Join(files, "\n"))
    }
}

1.27 golang-org-x-sys 20210225-snapshot-a50acf3f
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1.28 golang-org-x-sys 20190924-snapshot-2837fb4f

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

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```
package main

var licenseTemplates = map[string]string{
    "Apache-2.0": `// Copyright {{.Year}} {{.Owner}}
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    "MIT": `// Copyright (c) {{.Year}} {{.Owner}}
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}

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package main

import (  
  "testing"  
)

func TestUpdateData(t *testing.T) {

tests := []struct {
  input   string
  output  string
  year    int
  license string
}{{

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package main

2017,
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}
}

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("unexpected:\n%5$s\nactual:\n%5$s", output, actualOutput)
}
# update-license

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

## Installation

```bash

go get go.uber.org/tools/update-license
```

## Usage

```bash

debug-update go_files...
```

---
## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbose, dry run support

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1.30 azure/azure-event-hubs-go v3.3.15

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1.31 kubernetes-api v0.21.1

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1.32 golang-org-x-crypto 20190407-snapshot-cbcb7502

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1.33 godoc-text v0.1.0

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1.34 google-api-go-client v0.19.0

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import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
`) const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk("./", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        return nil
    })
}
```go
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
)
```

1.35 pkgerrors 20170827-snapshot-c605e284

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1.36 golang-org-x-net 20200430-snapshot-e0ff5e5a

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1.38 prometheus-common v0.6.0

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1.39 golang-org-x-oauth2 20201120-snapshot-cd4f82c2

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1.40 golang-org-x-net 20201105-snapshot-69a78807

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1.41 klauspost-compress v1.11.13

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1.43 golang-org-x-xerrors 20191005-snapshot-1b5146ad
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1.44 google-go-genproto 20191230-snapshot-f3c370f4

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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, 17)
    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()
    out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput();
    if 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 {  
            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) {
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }

    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/”) {
        return false, nil
    }

    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
    }

    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }

    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile("// .*DO NOT EDIT.?")

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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//go: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"))
}
}
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1.47 golang-mock v1.4.3
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# Please keep the list sorted.
//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

type Empty interface{}

// This is a mock copyright header.

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// aliqua. Velit ut tortor pretium viverra suspendisse potenti.

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// Source: input.go

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

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

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

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

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

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

return m.recorder
}

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1.48 cyphar-filepath-securejoin v0.2.3

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1.49 golang-org-x-xerrors 20190719-snapshot-9bdfabe6

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1.50 mitchellh-go-homedir v1.1.0

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1.51 golang-org-x-crypto 20190922-snapshot-9ee001bb

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1.52 go-check-check 20180628-snapshot-788fd784

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Gocheck - A rich testing framework for Go

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

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1.54 go.googlesource.com/tools v0.1.3

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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, 17)
    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.Fatalf("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(), ".") {

    //go:build go1.18
    // +build go1.18
return filepath.SkipDir

// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
  return filepath.SkipDir
}
return nil

needsCopyright, err := checkFile(dir, path)
if err != nil {
  return err
}
if needsCopyright {
  files = append(files, path)
}
return nil

return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
// Only check Go files.
if !strings.HasSuffix(filename, "go") {
  return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/"") {
  return false, nil
}
// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
  return false, nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
  return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
  return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

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

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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.HasPrefix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}
if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
}

1.55 google-api-go-client v0.14.0
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import (
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    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\|\スター All rights reserved\.)\*(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.`)
const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
            return nil
        }

        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}
1.56 apoydence/eachers 20181020-snapshot-23942921

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1.57 opencensus-go v0.22.2

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1.58 golang-protobuf v1.3.5
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1.59 golang-org-x-sys 20210907-snapshot-aa78b53d

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1.60 golang-org-x-net 20180906-snapshot-161cd47e

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1.61 dgraph-io/ristretto v0.1.0

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1.62 google-go-genproto 20190429-snapshot-e7d98fc5

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1.64 go-testify v1.3.0

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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.81 golang-org-x-lint 20200301-snapshot-738671d3

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1.82 opencensus-go v0.22.5

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1.83 golang-org-x-sync 20201207-snapshot-09787c99

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1.84 golang-org-x-sys 20210315-snapshot-c6e025ad

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1.86 go-metrics 20201227-snapshot-cf1acfcd

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1.87 mergo v0.3.6
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import: ../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.88 golang-snappy-go-dev v0.0.3
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1.89 mapstructure 1.3.3

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1.90 go.googlesource.com/tools 20191207-snapshot-a0e659d5

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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, 17)

    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.Fatalf("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
            }
            return nil
        }
        needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style`)
func checkFile(toolsDir, filename string) (bool, error) {  
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {  
        return false, nil  
    }  
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/" ) {  
        return false, nil  
    }  
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {  
        return false, nil  
    }  
    content, err := ioutil.ReadFile(filename)
    if err != nil {  
        return false, err  
    }  
    fset := token.NewFileSet()  
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {  
        return false, err  
    }  
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {  
        return false, nil  
    }  
    shouldAddCopyright := true
    for _, c := range parsed.Comments {  
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {  
            break  
        }  
        if copyrightRe.MatchString(c.Text()) {  
            shouldAddCopyright = false  
            break  
        }  
    }  
    return shouldAddCopyright, nil  
}  

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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//go:generate ./gen-licenses.sh licenses.go
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const licensesText = `-- github.com/BurntSushi/toml COPYING --
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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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}

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

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1.92 pmezard-go-difflib 1.0.0

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1.93 azure-storage-blob-go v0.8.0

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1.94 google-go-cmp v0.5.5

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1.95 google-go-genproto 20200825-snapshot-8632dd79

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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
url: the url"

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

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.97 golang-org-x-sys 20190502-snapshot-3ef323f4

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1.98 github.com/elastic/go-structform v0.0.9
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    package compute_test

    import {
"context"

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    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#TestIamPermissionsLicenseCodeReque
}
}  
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "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 "github.com/googleapis/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(ctx context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
  TestIamPermissions(ctx context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

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

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

// Wrapper methods routed to the internal client.

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

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

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

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

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

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

    // The http client.
    httpClient *http.Client

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

// 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", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

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

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

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Headers = headers

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

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

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

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

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

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

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

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.TestPermissionsResponse{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err != nil {
      return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
      return httpErr
    }
    defer httpRsp.Body.Close()

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

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

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

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

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package compute_test

import (
    "context"
    
    compute "cloud.google.com/go/compute/apiv1"
    "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.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
err = op.Wait(ctx)
if err != nil {
// TODO: Handle error.
}

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

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

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

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

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

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

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

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 ExampleLicensesClient_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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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.ListLicenseRequests, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

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

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

// Wrapper methods routed to the internal client.

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

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


c.internalClient.setGoogleClientInfo(keyval...

// Connection returns a connection to the API service.
//
// Deprecated.
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...)
}
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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.

// NewLicensesRESTClient creates a new licenses rest client.
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()

    o := []option.ClientOption{

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

return &LicensesClient{internalClient: c, CallOptions: &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, "gapi", "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil,
}

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

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err,
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

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

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

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

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unum := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.License{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err := httpReq.Do(); err != nil {
      return err
    }
    return unum.Unmarshal(buf, resp); err != nil {
      return maybeUnknownEnum(err)
    }

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

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

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
  unum := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.License{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    if err := httpReq.Do(); err != nil {
      return err
    }
    return unum.Unmarshal(buf, resp); err != nil {
      return maybeUnknownEnum(err)
    }

    return nil
  }, opts...)
  if e != nil {
    return nil, e
  }
  op := &Operation{
    &globalOperationsHandle{
      c: c.operationClient,
      proto: resp,
      project: req.GetProject(),
    },
  }
  return op, nil
}
httpRsp, err := httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

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

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

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

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

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

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


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

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

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

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

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

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

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

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

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err = googleapi.PrintErrors(httpRsp); err != nil {
            return err
        }
        if err = unm.Unmarshal(buf, resp); err != nil {
            return err
        }
        return nil
    })
    return resp, err
}
if err != nil {
    return err
}

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

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

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

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
ce := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

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

return maybeUnknownEnum(err)
}

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

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

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

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

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
        req.GetResource())
    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != ""
        baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...) if e != nil {
    return nil, e
}
return resp, nil

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

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

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        if err := unm.Unmarshal(buf, resp); err != nil {
            return err
        }
        return nil
    })
    return resp, err
}

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

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

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

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

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

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

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

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

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

---

1.100 golang-org-x-sys 20210111-snapshot-b64e53b0

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1.101 golang-org-x-net 20180724-snapshot-3673e40b

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1.102 jmespath-go-jmespath 20180502-snapshot-c2b33e84

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1.103 google-api-go-client v0.20.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
`) const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return
        }

        if strings.Contains(string(src), prefix) {
            t.Errorf("%s does not have the appropriate license."
                , path)
            return
        }
    })
}

//
return nil

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
}
if err != nil {
    t.Fatal(err)
}

1.104 klauspost-compress v1.12.2
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1.105 google-go-genproto 20191216-snapshot-4f79533e

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1.106 golang-org-x-crypto 20180503-snapshot-c2843e01

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1.107 wheelcomplex/gosigar v0.14.2

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1.108 google-go-cmp v0.5.3
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1.110 goconvey 20190430-snapshot-68dc04aa

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1.115 pierre/gotestcover 20160517-snapshot-924dca7d

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1.116 azure-pipeline-go v0.2.1

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1.117 golang-org-x-crypto 20210219-snapshot-5ea612d1

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1.118 go.googlesource.com/tools 20190517-snapshot-2c0ae700

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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, 17)

    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.Fatalf("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 {
    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 shouldAddCopyright {
            break
        }
        // Other cases
    }
    // Other cases
    return shouldAddCopyright, nil
}
if c.Pos() > parsed.Package {
    break
}
if copyrightRe.MatchString(c.Text()) {
    shouldAddCopyright = false
    break
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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.Fatalf("current working directory is %s, expected tools", tools)
}

files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}

if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
}
1.119 elastic/go-fastjson v1.1.0

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1.120 go.googlesource.com/tools 20191128-snapshot-6e064ea0
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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, 17)
    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.Fatalf("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 {  
      files = append(files, path)
    }
    return nil
  })
  return files, err
}


func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/")) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}

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1.124 go.googlesource.com/tools 20200505-snapshot-2bc93b1c

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// license that can be found in the LICENSE file.

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, 17)

    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.Fatalf("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
if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err
}

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

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

    // command would.
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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"))
}

---

1.125 goidentity 6.0.1

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1.127 go-xdr 20161122-snapshot-e6a2ba00

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//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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1.135 prometheus-procfs 20190508-snapshot-87a43845

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

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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, 17)

  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 {
            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`)
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/”) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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package hooks

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

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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, ","))
    }
}

1.139 godotenv v1.3.0
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1.140 golang-org-x-crypto 20200521-snapshot-7f63de1d

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1.141 go.googlesource.com/tools 20200114snapshot-43d50277
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// license that can be found in the LICENSE file.
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, 17)
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.Fatalf("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")

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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) (files []string, err 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 nil
        }
        files = append(files, needsCopyright)
        return
    })
    return
}
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()) {
      return err
    }
    if needsCopyright {
      files = append(files, path)
    }
    return nil
  }
  return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)
shouldAddCopyright = false
break
}
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
for _, commentGroup := range file.Comments {
for _, comment := range commentGroup.List {
if matched := generatedRx.MatchString(comment.Text); !matched {
continue
}
// Check if comment is at the beginning of the line in source.
if pos := fset.Position(comment.Slash); pos.Column == 1 {
return true
}
}
return false
}

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package hooks

const licensesText = `  -- github.com/BurntSushi/toml COPYING --
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// +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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%v", strings.Join(files, "\n"))
    }
}
1.142 azure/go-amqp v0.16.0

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1.143 golang-org-x-lint 20190822-snapshot-414d861b

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1.145 google-go-genproto 20200204-snapshot-fa8e72b4

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1.146 golang-org-x-sys 20191228-snapshot-04cbbcbbf

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1.147 golang-org-x-sys 20200115-snapshot-b7759429

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snapshot-9cc4af7d
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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, 17)

    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.Fatalf("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 {
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.

Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1 549


if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}
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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package copyright

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

1.149 golang-org-x-sys 20200212-snapshot-12a6c2dc
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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, 17)
    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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// 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) (files []string, err 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
        }
        return nil
    })
    return files, err
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
if copyrightRe.MatchString(c.Text()) {
    shouldAddCopyright = false
    break
}
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?
`)
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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, ", "))
  }
}
1.155 gogo-protobuf v1.3.1

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Protocol Buffers for Go with Gadgets

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

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1.156 golang-org-x-sys 20210609-snapshot-a4fc7399

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1.157 googlecloudgo v0.83.0

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1.158 golang-org-x-sys 20200217-snapshot-9197077d

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1.159 googlecloudgo v0.93.3

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package compute_test

import (
    "context"

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

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

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}

def err c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}

resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}

// TODO: Use resp.
_ = resp
}

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

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}

def err c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}

resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}

// TODO: Use resp.
_ = resp
}

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

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

func ExampleLicensesClient_TestIamPermissions() {
  ctx := context.Background()
  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"
)

compute "cloud.google.com/go/compute/apiv1"  
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    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#TestIamPermissionsLicenseCodeRequest
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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//
package compute

import {
    "bytes"
    "context"
    "fmt"
    "io/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, *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.
    endpoint string

    // 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 = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    // More code
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{
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
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
}
def 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 := &compute pb.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 *compute pb.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 = 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
}
deferr 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 {
                return nil, err, fmt.Errorf("PageSize cannot exceed %d", math.MaxInt32)
            }
            // Query the service for licenses.
            return it.ListLicenses(req, pageSize, pageToken)
        }
        // Implement the iterator logic here
    }
    return &LicenseIterator{it}
}
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 {
        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
}

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

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

return it
}

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

    baseUrl, _ := 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
    }
    return
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

// 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)

  if err != nil {
    return nil, err
  }

  httpReq = httpReq.WithContext(ctx)

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

  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
}
// 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{}
}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

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

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

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

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

package compute

import {
    "bytes"
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.TestIamPermissionsResponse, error)
}

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

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}
// Wrapper methods routed to the internal client.

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

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

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

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

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, 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.
}
// NewLicenseCodesRESTClient creates a new license codes rest client.

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/")
    }
}

// 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(keyval, ["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 = 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.LicenseCode{}
if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%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

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1.161 golang-github-spf13-pflag-dev 1.0.3

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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, 17)

    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.Fatalf("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() {
            return err
        }
        if !strings.HasPrefix(d.Name(), ".") {
            files = append(files, path)
        }
        return nil
    })
    if err != nil {
        return nil, err
    }
    return files, nil
}

// Skip directories like ".git".
if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
}

// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
}
return nil

needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err

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

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

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

1.163 golang-org-x-net 20201123-snapshot-a5a99cb3
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1.164 golang-org-x-text v0.3.2

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1.165 golang-org-x-net 20190620-snapshot-3b0461ee

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1.166 dominikh-go-tools 2019.2.3

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1.167 golang-org-x-text v0.3.4

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1.169 hashicorp_nomad 20201203-snapshot-6318a8ac

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    ## 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.

## Configuring the License

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

```
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](https://docs.hashicorp.com/nomad/commands/license) for more information on interacting with the Enterprise License.

---

# Frequently Asked Questions (FAQ)

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 the 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.

---

`# License Operator HTTP API`

<EnterpriseAlert />

---
## 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

```
$ curl \n   https://localhost:4646/v1/operator/license
```

### Sample Response

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

import ( 
  "fmt"

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

type LicenseGetCommand struct {
  Meta
}

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

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

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

  General Options:

  ` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

  return helpText
}

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

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

---

# 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] - 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
  Sentinel Policies
```
```shell-session
$ nomad license get -stale=true

Product        = nomad
License Status = valid
License ID     = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID    = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At      = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At     = 2022-04-01 00:00:00 +0000 UTC
Terminates At  = 2022-04-04 00:00:00 +0000 UTC
Datacenter     = *
 Modules:
  governance-policy
  multicluster-and-efficiency
Licensed Features:
  Automated Upgrades
  Enhanced Read Scalability
  Redundancy Zones
  Namespaces
  Resource Quotas
  Audit Logging
  Sentinel Policies
  Multiregion Deployments
  Automated Backups
  Multi-Vault Namespaces
```
```
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),
    }
    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")
}
1.170 fsnotify-fsnotify v1.4.9

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1.173 hectane-go-acl 20190604-snapshot-da78bae5

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1.174 golang-org-x-sys 20200930-snapshot-fdedc70b

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

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1.184 godoc-text v0.2.0
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1.185 elastic/apm-agent-go v1.7.2

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

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

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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, 17)
  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.Fatalf("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 nil
        }
        if needsCopyright {
            return nil
        }
        files = append(files, path)
        return nil
    })
    return files, err
}
files = append(files, path)
}
return nil
}
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, err
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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// +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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
            %s", strings.Join(files, ", "))
    }
}
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type cloud

import (
    "bytes"
    "io/ioutil"
    "os"
)
var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,
    }
    // BSD license, which is compatible, is embedded in the file.
    "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,
    "third_party/pkgsite/print_type.go": true,
    "third_party/pkgsite/synopsis.go": true,
    }
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if skip[path] {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.
        // Find license
        for _, sentinel := range sentinels {
            // path/filepath
            // strings
            // testing
        )
    }
}

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

return nil
})
if err != nil {
    t.Fatal(err)
}

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1.199 golang-protobuf v1.5.0

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1.200 go-humanize v1.0.0

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tomb - support for clean goroutine termination in Go.

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d8887717

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1.206 go-check-check 20200227-snapshot-8fa46927

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1.211 stretchr-objx v0.1.1

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1.213 golang-org-x-sys 20181116-snapshot-5ac8a444

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1.216 golang-org-x-net 20211019-snapshot-d418f374

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1.218 go.googlesource.com/tools 20200226-snapshot-706bc42d

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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, 17)
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.Fatalf("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 {
        files = append(files, path)
    }
    return nil
})
return files, err

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

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

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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package hooks

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

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// +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"))
    }
}

1.219 go.googlesource.com/tools 20201105-snapshot-079ba7bd
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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, 17)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unixes")
    }
}
```go
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   }   files = append(files, path)  })  if err != nil {    return nil, err  }  return files, nil
}
```
if d.IsDir() {
    // Skip directories like ".git".
    if strings.HasPrefix(d.Name(), ".") {
        return filepath.SkipDir
    }
    // Skip any directory that starts with an underscore, as the go
    // command would.
    if strings.HasPrefix(d.Name(), "_") {
        return filepath.SkipDir
    }
    return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
})
return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't checktestdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "/cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)
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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.Fatalf("current working directory is %s, expected tools", tools)
}
files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}
if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, 
"\n"))
}

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1.222 go-ole-go-ole 20190920-snapshot-14974a1c

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1.223 cespare-xxhash v1.1.0

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

package empty_interface

type Empty interface{}

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// 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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1.226 golang-org-x-sys 20210512-snapshot-e8d321ea
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1.227 gorilla-mux 20201125-snapshot

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1.229 go.googlesource.com/tools 20191119-snapshot-298f0cb1
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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, 17)

    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.Fatalf("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.")
    }
}
package copyright

import {
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "io/ioutil"
    "path/filepath"
    "regexp"
    "strings"
}

func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        if d.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            // Skip any directory that starts with an underscore, as the go
            // command would.
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            return nil
        }
        needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            files = append(files, path)
        }
        return nil
    })
    return files, nil
}
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}

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1.233 google-go-genproto 20210604-snapshot-392c879c

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1.234 google-api-go-client v0.24.0
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import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            src, err := ioutil.ReadFile(path)
            if err != nil {
                return nil
            }
        }
    })
}
// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
}
if err != nil {
    t.Fatal(err)
}

---

1.235 gotestyourself/gotestsum v0.6.0

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1.236 mitchellh-hashstructure 20180823-snapshot-ab25296c

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1.238 golang-org-x-oauth2 20210624-
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1.242 golang-org-x-sync 20190422-snapshot-11223019

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1.244 go.googlesource.com/tools 20190627-snapshot-6cdbf07b
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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, 17)
    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.Fatalf("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
            }
        }
        needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`)
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
// var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT.*)
func isGenerated(fset *token.FileSet, file *ast.File) bool {

for _, commentGroup := range file.Comments {
    for _, comment := range commentGroup.List {
        if matched := generatedRx.MatchString(comment.Text); !matched {
            continue
        }
        // Check if comment is at the beginning of the line in source.
        if pos := fset.Position(comment.Slash); pos.Column == 1 {
            return true
        }
    }
    return false
}

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//go: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

copyright

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

1.245 go.googlesource.com/tools 20190208-snapshot-ab21143f

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package hooks

import (  
    "bytes"
)
func TestLicenses(t *testing.T) {
  // License text differs for older Go versions because staticcheck isn't
  // supported for those versions.
  testenv.NeedsGoPoint(t, 17)

  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.Fatalf("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 {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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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
    }
    contents, err := ioutil.ReadFile(filepath.Join(toolsDir, filename))
    if err != nil {
        return false, err
    }
    m := copyrightRe.FindSubmatchIndex(contents)
    if m == nil {
        return false, nil
    }
    return true, nil
}
return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
return false, nil
}
// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
return false, nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
// The copyright should appear before the package declaration.
if c.Pos() > parsed.Package {
break
}
if copyrightRe.MatchString(c.Text()) {
shouldAddCopyright = false
break
}
}
return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)
func isGenerated(fset *token.FileSet, file *ast.File) bool {
for _, commentGroup := range file.Comments {
for _, comment := range commentGroup.List {
if matched := generatedRx.MatchString(comment.Text); !matched {

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// 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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package hooks

const licensesText = `
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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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}

1.246 sqlx 20190826-snapshot-d7d95172

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1.247 golang-org-x-xerrors 20190516-snapshot-a985d340

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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, 17)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unices")
    }
    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.Fatalf("generating licenses failed: %s, %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
            }
        }
    })
    return files, nil
}

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
            }
        }
    })
    return files, nil
}
// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
)
return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/`) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches egO generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

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

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// +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, ","))
}

1.250 google-go-genproto 20210805-snapshot-89edb61f
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1.251 golang-org-x-net 20191105-snapshot-2180aed2

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1.252 fsnotify/fsevents 20200727-snapshot-e1d381a4

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1.253 mailru-easyjson v0.7.1

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1.254 googlecloudgo 0.72.0

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,

        // BSD license, which is compatible, is embedded in the file.
        "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,

        "third_party/pkgsite/print_type.go": true,
        "third_party/pkgsite/synopsis.go": true,
    }
}
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }

    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
        return nil
    }

    if strings.HasSuffix(path, ".pb.go") {
        // .pb.go files are generated from the proto files.
        // .proto files must have license headers.
        return nil
    }

    if skip[path] {
        return nil
    }

    src, err := ioutil.ReadFile(path)
    if err != nil {
        return nil
    }

    src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
    for _, sentinel := range sentinels {
        if !bytes.Contains(src, []byte(sentinel)) {
            t.Errorf("%v: license header not present. want %q", path, sentinel)
            return nil
        }
    }

    return nil
})
if err != nil {
    t.Fatal(err)
}

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1.257 masterminds-semver v1.4.2

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1.258 klauspost-compress v1.12.3

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Dependency: github.com/stretchr/testify
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Dependency: go.uber.org/zap
Version: v1.14.0
License type: MIT
https://github.com/uber-go/zap/blob/0bd02a6308c1bac3a03b02dc385555297cb22f83/LICENSE.txt:

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Dependency: github.com/magefile/mage
Version: v1.9.0
License type: Apache-2.0
https://github.com/magefile/mage/blob/324c6690ed410efc1d9b597e477c46d42cbeb340/LICENSE:

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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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1.263 kr-pretty 0.2.1

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1.264 golang-org-x-sys 20211005-snapshot-d3039528

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Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1 1080
1.265 flock v0.8.1

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1.266 codegangsta/inject 20150114-snapshot-33e0aa1c

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1.267 google-go-genproto 20190918-snapshot-1774047e

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1.268 go.googlesource.com/tools 20191115-snapshot-3a792d9c
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    package hooks

    import {
        "bytes"
        "io/ioutil"
        "os/exec"
        "runtime"
        "testing"
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 17)

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

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
    return false, nil
}

// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//  https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
return true
}
}
return false

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

package hooks

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

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// +build go1.18

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

1.269 golang-org-x-sys 20210426-snapshot-d19ff857

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1.270 golang-org-x-net 20200716-snapshot-c8904581

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1.271 oelkukonko-tablewriter v0.0.5

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1.272 spf13-cobra v1.0.0

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1.273 go.googlesource.com/tools 20200209-snapshot-b320d3a0
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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, 17)

    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)
// Copyright 2020 The Go Authors. All rights reserved.  
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// license that can be found in the LICENSE file.

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

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

func checkCopyright(dir string) ([]string, error) {  
    var files []string  
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {  
        if err != nil {  
            return err  
        }  
        if d.IsDir() {  
            // Skip directories like ".git".
    
}
if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
}

// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
}
return nil

needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don’t check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/")) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don’t check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/")) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
```
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
// The copyright should appear before the package declaration.
if c.Pos() > parsed.Package {
break
}
if copyrightRe.MatchString(c.Text()) {
shouldAddCopyright = false
break
}
}
return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)
func isGenerated(fset *token.FileSet, file *ast.File) bool {
for _, commentGroup := range file.Comments {
for _, comment := range commentGroup.List {
if matched := generatedRx.MatchString(comment.Text); !matched {
continue
}
// Check if comment is at the beginning of the line in source.
if pos := fset.Position(comment.Slash); pos.Column == 1 {
return true
}
}
}
return false
}
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//go: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 "os" path/filepath" strings" testing"
)

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

1.274 sanathkr/go-yaml 20180712-snapshot-ed9d249f

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1.277 golang-protobuf 1.3.4

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1.278 golang-org-x-sys 20200302-snapshot-5c8b2ff6

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1.293 mattn-go-colorable v0.1.6
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1.294 golang-org-x-crypto 20201110-snapshot-0c6587e9
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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.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)

cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
cmd.ClusterFlag.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
  }

  return
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()

er := 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)
    }

    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")
    }
}
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/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{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.OutputFlag, _ = flags.NewOutputFlag()
    cmd.feature = f.Arg(0)
    lic, err := license.List(cmd.ClientFlag, cmd.feature)
    if err != nil {
        t.Fatal(err)
    }
    f.Println(lic)
}

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*/
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/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
}

m := license.NewManager(client)

// From the vSphere 5.5 documentation:
//
// To specify the edition type and any optional functions, use
// updateLicense for ESX Server and addLicense follow by
// LicenseAssignmentManager.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
        skip "requires evaluation license"
    fi
}
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 00000-00000-00000-00000-000001 00000-00000-000000-00000-000002
    assert_success

    # Expect to see an entry for both the first and the second key
    assert_equal "License is not valid for this product" "$\$(get_key 00000-00000-00000-00000-000001 <<<\$output | get_property diagnostic)"
    assert_equal "License is not valid for this product" "$\$(get_key 00000-00000-00000-00000-000002 <<<\$output | get_property diagnostic)"
}

@test "license.remove" {
    esx_env

    verify_evaluation

    run govc license.remove -json 00000-00000-00000-00000-000001
    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" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"
}

@test "license.decode" {
  esx_env

  verify_evaluation

  key=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

  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 $key)"
  assert_equal "" "$(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",  
        },  
        Key: "dvs",  
        Value: types.KeyValue{  
    }  
}
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{ }
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        }
    }
}


m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
return body
}
}
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
govic license.label.set 00000-00000-00000-00000-00000 team "" # remove label
  govc license.ls -json | jq '.[] | select(.Labels[].Key == "team") | .LicenseKey"
}

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, Context, f *flag.FlagSet) error {
    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
    }

    // Process logic
    return nil
}
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
}
return nil
}

func (cmd *decode) Usage() string {
    return "KEY...
}
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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,
    }
    _, 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:     mapToKeyValueSlice(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 {

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

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

    lf.name = f[0]

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

    return lf
}

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
        }

        lf := parseLicenseFeature(kv.Key)
        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []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
}

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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/govc/vim25/types"
)

var 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
    }
    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 (
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\t", v.LicenseKey)
        fmt.Fprintf(tw, "%s\t", v.EditionKey)
        fmt.Fprintf(tw, "%d\t", v.Used)
        fmt.Fprintf(tw, "%d\t", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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*/
package license

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(),
    Entity:            id,
    LicenseKey:        key,
    EntityDisplayName: name,
  }
res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
    return nil, err
}
return &res.Returnval, nil

1.297 golang-org-x-sys 20190405-snapshot-97732733

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1.298 protobuf v1.21.0
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1.299 go-logrus v1.2.0
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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        if !strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        file := string(src)
        for _, s := range sentinels {
            if !strings.Contains(file, s) {
                t.Errorf("%s is not found in %s", s, path)
            }
        }
        return nil
    })
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}
return nil

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

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1.302 google-go-genproto 20200430-snapshot-b979b6f7

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1.305 go-check-check 20171108-snapshot-20d25e28

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1.307 go.googlesource.com/tools 20190111-snapshot-bf090417

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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, 17)

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.Fatalf("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 {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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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
    }
    return copyrightRe.MatchString(normalized), nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`//.*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}
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//go: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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, 
))
    }
}

1.308 google-go-genproto 20210909-snapshot-a8c4777a
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1.309 golang-org-x-sys 20190215-snapshot-d0b11bda

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1.311 golang-org-x-sync 20180924-snapshot-37e7f081

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1.312 golang-org-x-crypto 20190325-snapshot-a5d413f7

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1.313 google-api-go-client v0.22.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }
        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
            return nil
        }
        if err != nil {
            t.Fatal(err)
        }
    })
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
    return nil
}
if err != nil {
    t.Fatal(err)
}
1.314 googleapis-gax-go v2.0.4

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1.315 uber-go-atomic v1.5.0

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1.316 github.com/elastic/go-seccomp-bpf

v1.2.0

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1.317 go-logfmt-logfmt v0.4.0

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1.318 golang-org-x-net 20181114-snapshot-adae6a3d

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1.327 googlecloudgo v0.52.0

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package cloud

import (    
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "strings"
  "testing"
)

var sentinels = []string{    
  "Copyright",
  "Google",
  "Licensed under the Apache License, Version 2.0 (the "License");`,}
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if ext != ".pb.go" {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }

        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}

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1.328 golang-org-x-net 20201208-snapshot-ac852fbb

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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, 17)

    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.Fatalf("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 {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}
files = append(files, path)
} return nil }
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/”) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`//.*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

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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"))
    }
}
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1.331 golang-org-x-lint 20200130-snapshot-910be7a9

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1.332 godirwalk v1.15.6

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1.333 logr v0.2.0

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1.341 golang-org-x-oauth2 20210819-snapshot-2bc19b11

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1.342 golang-org-x-oauth2 20190507-snapshot-0f29369c

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1.343 pkgerrors v0.8.1

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1.344 googleapis-gax-go v2.0.5

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1.345 golang-mock 1.3.1

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1.346 golang-org-x-lint 20191125-snapshot-fdd1cda4
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1.347 google-go-genproto 20190803-snapshot-fa694d86

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

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

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1.349 jsoniter-go v1.1.6

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1.356 google-uuid v1.2.0

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1.358 prometheus-client-model v0.2.0

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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, 17)

    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.Fatalf("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.Fatalf("reading licenses.go failed: %v", err)
    }

    // Compare:
    // - both must be the same length
    // - each line must be the same

    if len(got) != len(want) {
        t.Errorf("expected %d lines, got %d", len(want), len(got))
    }

    for i := 0; i < len(got); i++ {
        if got[i] != want[i] {
            t.Errorf("line %d of output differs, %v != %v", i, got[i], want[i])
        }
    }
}

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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
        }
        return needsCopyright
    })
    return files, err
}
if needsCopyright {
    files = append(files, path)
}
return nil
})
return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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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
        }
    }
    return shouldAddCopyright, nil
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
  for _, commentGroup := range file.Comments {
    for _, comment := range commentGroup.List {
      if matched := generatedRx.MatchString(comment.Text); !matched {
        continue
      }
      // Check if comment is at the beginning of the line in source.
      if pos := fset.Position(comment.Slash); pos.Column == 1 {
        return true
      }
    }
    return false
  }
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//go: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"))
    }
}
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1.366 groupcache 20190701-snapshot-869f8716

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1.367 go.googlesource.com/tools v0.1.7

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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, 17)
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.Fatalf("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
  
  // Package copyright checks that files have the correct copyright notices.
  }
err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
    if err != nil {
        return err
    }
    if d.IsDir() {
        // Skip directories like ".git".
        if strings.HasPrefix(d.Name(), ".") {
            return filepath.SkipDir
        }
        // Skip any directory that starts with an underscore, as the go
        // command would.
        if strings.HasPrefix(d.Name(), "_") {
            return filepath.SkipDir
        }
        return nil
    }
    needsCopyright, err := checkFile(dir, path)
    if err != nil {
        return err
    }
    if needsCopyright {
        files = append(files, path)
    }
    return nil
})
return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, ".go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    if copyrightRe.Match(content) {
        return true, nil
    }
    return false, nil
}
return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MustString(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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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) {
```go
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"))
}
```

---

**1.368 client-go v0.20.6**

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

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1.371 go.googlesource.com/tools 20180907-snapshot-90fa682c

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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, 17)

    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.Fatalf("generating licenses failed: %q, %v", out, err)
    }

    got, err := ioutil.ReadFile(tmp.Name())
    if err != nil {
        t.Fatal(err)
    }
    t.Logf("got: %s", got)
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) (files []string, err 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
    })
    return files, err
}
needsCopyright, err := checkFile(dir, path)  
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go"") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            shouldAddCopyright = false
            break
        }
    }
    if shouldAddCopyright {
        // Add copyright header to file.
        for _, c := range parsed.Comments {
            if c.Pos() < parsed.Package {
                if c.Text() == copyrightRe.String() {
                    return false, err
                }
            }
        }
        // Insert copyright header at end of file.
        // ...
break
}
if copyrightRe.MatchString(c.Text()) {
    shouldAddCopyright = false
    break
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?\n`)

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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// +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.Fatalf("current working directory is %s, expected tools", tools)
}

files, err := checkCopyright(tools)
if err != nil {
t.Fatal(err)
}

if len(files) > 0 {
t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, ":n"))
}

1.372 google-go-cmp v0.2.0

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1.373 golang-org-x-oauth2 20201103-snapshot-9fd60495

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1.374 sanathkr/yaml 20180712-snapshot-0056894f

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1.375 go-mssqlldb 20200206-snapshot-bbfc9a55

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1.376 jpillora-backoff 1.0.0

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1.377 go.googlesource.com/tools 20190620-
snapshot-6e04913c
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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, 17)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unices")
    }
    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 {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

func checkFile(dir, path string) (bool, error) {
    f, err := os.Open(path)
    if err != nil {
        return false, err
    }
    defer f.Close()
    reader := bufio.NewReader(f)
    for i := 0; ; i++ {
        line, _, err := reader.ReadLine()
        if err != nil {
            if err == io.EOF {
                return false, nil
            }
            return false, err
        }
        if strings.Contains(line, "Copyright") {
            return true, nil
        }
        if strings.Contains(line, "License") {
            return true, nil
        }
    }
}
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }

    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }

    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }

    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }

    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }

    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }

    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }

    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches egc generated comment as well as the proposed standard:
// // https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

1.378 googlecloudgo v0.45.1
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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
    `\n`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            if ext != ".pb.go" {
                return nil
            }
        } else if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        } else if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        } else if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
        }
        return nil
    })
}

Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1 1435
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}

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1.379 golang-org-x-sys 20201008-snapshot-dfb3f7c4

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1.380 ginkgo v1.11.0

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1.381 elastic/go-lumber v0.1.0

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1.383 grpc-go v1.39.1

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1.384 googlecloudgo v0.53.0
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package cloud

import {
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
}

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if ext := filepath.Ext(path); ext != ".pb.go" {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            //...
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

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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/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 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) (*computepb.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) (*computepb.Operation, error)
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)

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

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

// Wrapper methods routed to the internal client.

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

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

// Connection returns a connection to the API service.
//
// Deprecated.
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) (*computepb.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) (*computepb.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) (*computepb.LicensesListResponse, error) {
    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) {
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

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

    // The http client.
    httpClient *http.Client

    // 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) (*computepb.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 = 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
    }
    var op *computepb.Operation
    if err := json.NewDecoder(httpRsp.Body).Decode(&op); err != nil {
        return nil, err
    }
    httpRsp.Body.Close()
return nil, err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)

// 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 = httpReqWithContext(ctx)

// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = []string{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 httpRsp.StatusCode != http.StatusOK {
return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)
}

// 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{
        if req != nil &
            req.OptionsRequestedPolicyVersion != nil {
        }
    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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*computepb.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 {
        if 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 httpRsp.StatusCode != http.StatusOK {
        return nil, err
    }

    return nil, err
}
return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computed. operation[0]

return rsp, unm.Unmarshal(buf, rsp)

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

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

    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
}
def httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicensesListResponse{}
return rsp, unm.Unmarshal(buf, rsp)

// 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 = 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
}
deferr httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)
}

// 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)

    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
}
def defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)

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

package compute

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

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

// Wrapper methods routed to the internal client.

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

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

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

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

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

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

    // The http client.
    httpClient *http.Client

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

// 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", 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 {
// 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)

    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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

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

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

    return rsp, unm.Unmarshal(buf, rsp)
}

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
        req.GetProject(), req.GetResource()))

    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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

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

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

    return rsp, unm.Unmarshal(buf, rsp)
}

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

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

package compute_test

import {
  "context"

compute "cloud.google.com/go/compute/apiv1"
computepb "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.
  }
  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() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()

  req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
  }
  resp, err := c.GetIamPolicy(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_Insert() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
  }
  defer c.Close()
req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
}
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.
}
def c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.List(ctx, req)
    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.
}
def c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_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.
  }
  resp, err := c.TestIamPermissions(ctx, req)
  if err != nil {
    // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
}

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

package compute_test

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

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    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.
    }
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.
    }
    resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

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1.389 prometheus-procfs v0.0.2

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

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1.390 golang-mock v1.4.1

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Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

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.

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

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1.392 yuin-gopher-lua 20170403-snapshot-b402f311

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1.394 golang-org-x-net 20190426-snapshot-9ce7a692

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1.395 mattn-go-colorable v0.1.4

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1.396 googlecloudgo v0.78.0

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1.397 google-go-genproto 20211018-snapshot-cf77aa76

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1.406 google-uuid v1.3.0

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1.407 golang-org-x-net 20200506-snapshot-7e3656a0

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1.408 googlecloudgo v0.81.0

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1.409 golang-org-x-sys 20210104-snapshot-6f834862

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1.412 golang-mock v1.5.0

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//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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1.414 golang-protobuf v1.3.2

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1.415 golang-org-x-net 20200906-snapshot-ff519b6c

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1.416 santhosh-tekuri-jsonschema v1.2.4

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1.417 flatbuffers 1.12.0

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1.418 mitchellh-iochan v1.0.0

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1.419 go-inf-inf v0.9.1

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t.Fatalf("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 {
    files = append(files, path)
}
return nil

return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)
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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 {
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 17)

    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.Fatalf("generating licenses failed: %q, %v", out, err)
    }

    got, err := ioutil.ReadFile(tmp.Name())

    if err == nil {
        // ... (remaining code) ...
    }
}

1.421 go.googlesource.com/tools 20200311-snapshot-11d5b4c8

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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, 17)

    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.Fatalf("generating licenses failed: %q, %v", out, err)
    }

    got, err := ioutil.ReadFile(tmp.Name())

    if err == nil {
        // ... (remaining code) ...
    }
}
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
        }
    })
    return files, err
}

// Package copyright checks that files have the correct copyright notices.
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don’t check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don’t require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
if c.Pos() > parsed.Package {
    break
}
if copyrightRe.MatchString(c.Text()) {
    shouldAddCopyright = false
    break
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

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

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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)
    }
    f, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(f) > 0 {
        t.Errorf("The following files are missing copyright notices:
%01
" strings.Join(f, "\n"))
}
### Note

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

s'affiche comme

```
{{ % notice note %}}
Une notice de type *note*
{{ % /notice %}}
```
The notice shortcode shows 4 types of disclaimers to help you structure your page.
### Note

```yaml
{{% notice note %}}
A notice disclaimer
{{% /notice %}}
```
renders as

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

### Info

```yaml
{{% notice info %}}
An information disclaimer
{{% /notice %}}
```
renders as

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

### Tip

```yaml
{{% notice tip %}}
A tip disclaimer
{{% /notice %}}
```
renders as

```yaml
{{% notice tip %}}
A tip disclaimer
{{% /notice %}}
```

### Warning

```yaml
{{% notice warning %}}
An warning disclaimer
{{% /notice %}}
```
renders as

{{% notice warning %}}
A warning disclaimer
{{% /notice %}}

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1.423 kr-pretty 0.1.0

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1.425 eapache-queue v1.1.0

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1.428 google-uuid v.1.1.2

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    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {

err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
if skip[path] {
    return nil
}
if err != nil {
    return err
}
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}
// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
} return nil
})
if err != nil {
    t.Fatal(err)
}

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1.431 golang-org-x-net 20200227-snapshot-244492df

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1.432 gocarina/gocsv 20170505-snapshot-ffef3ffc

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1.434 go.googlesource.com/tools 20191108-snapshot-7d206e10

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package hooks

import (  
"bytes"  
"io/ioutil"  
"os/exec"  
"runtime"  
"testing"
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn’t
    // supported for those versions.
testenv.NeedsGo1Point(t, 17)

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

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

func checkFile(toolsDir, filename string) (bool, error) {  
// Only check Go files.
if !strings.HasSuffix(filename, "go") {  
return false, nil  
}  
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filepath.ToSlash(filepath.FromSlash(filename))), filepath.ToSlash(filepath.ToSlash(toolsDir)))  
if strings.Contains(normalized, "testdata") {
return false, nil

// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.

// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`/\*.*DO NOT EDIT\./\?\n\/\\n\/\*\*/`)  

defined := true
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.String(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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const licensesText = `---
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// +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.Fatalf("current working directory is %s, expected tools", tools)
}

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

---

1.435 golang-org-x-sys 20200106-snapshot-b016eb3d

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1.437 golang-protobuf 1.4.2

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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, 17)

    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)
    }

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if !bytes.Equal(got, want) {
t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopts 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
        }
        return needsCopyright
    })
    return files, err
}
if needsCopyright {
    files = append(files, path)
}
return nil
})
return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
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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// +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"))
    }
}
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# Please keep the list sorted.

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)\*( All rights reserved\.)\*( All rights reserved\.)\*`)

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```

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}
// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }
        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}

1.446 markbates/pkger v0.17.0
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1.450 protobuf v1.27.1

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1.453 golang-org-x-sys 20200113-snapshot-86b91054

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1.455 googleapis-gax-go v2.1.0

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1.456 yaml-for-go v2.3.0

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1.457 gopkg-in-mgo-v2 20171108-snapshot-3f83fa50

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mgo - MongoDB driver for Go

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BSON library for Go

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1.458 docker-go-metrics v0.0.1

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1.459 go.googlesource.com/tools 20200821-snapshot-39188db5

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package hooks

import (  "bytes"  "io/ioutil"  "os/exec"  "runtime"  "testing"
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 17)

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

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

func checkFile(toolsDir, filename string) (needsCopyright bool, err 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.
    // Don't require headers on generated files.
    if c.Pos() > parsed.Package {
        break
    }

    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }

            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {

return true
}
}
}
return false
}
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//go:generate ./gen-licenses.sh licenses.go
package hooks

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

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// +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.Fatalf("current working directory is %s, expected tools", tools)
}

files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}

if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
}
}
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Protocol Buffers for Go with Gadgets

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

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1.463 errwrap v1.0.0

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1.464 go.googlesource.com/tools 20200822-snapshot-b303f430

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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, 17)
    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.Fatalf("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
    })
    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.

```go
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)
```
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

1.465 googlecloudgo v0.90.0

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package compute

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

gax "github.com/googleapis/gax-go/v2"  
"google.golang.org/api/iterator"  
"google.golang.org/api/option"  
"google.golang.org/api/option/internaloption"  
httptransport "google.golang.org/api/transport/http"  
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
}
// 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
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

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

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

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

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

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

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

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

    // The http client.
    httpClient *http.Client

    // 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 = 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 {

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return nil, err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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, 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 = 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 httpRsp.StatusCode != http.StatusOK {
// 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{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }

    baseUrl.RawQuery = params.Encode()

    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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

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

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &compute pb.License{

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}
return rsp, unm.Unmarshal(buf, rsp)

// 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{
        "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
    }

    return &Operation{}, err
}
defer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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, 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)
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
            baseUrl, _ := url.Parse(c.endpoint)
            baseUrl._ := url.Values{
                if req != nil && req.Filter != nil {
                    params := url.Values{
                        if req != nil &
                    }
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
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 httpRsp.StatusCode != http.StatusOK {
    return nil, "", fmt.Errorf(httpRsp.Status)
}
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
}

fetch := func(pageSize int, pageToken string) (string, error) {

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

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

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

    baseUrl, _ := 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 httpRsp.StatusCode != http.StatusOK {
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)
    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 httpRsp.StatusCode != http.StatusOK {
return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
    
return rsp, unm.Unmarshal(buf, rsp)
}

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

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

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

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

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

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

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

package compute_test

import (
    "context"
    "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    "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.
    }
    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() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
    }
    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.
        }
        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
        }
// 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.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_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.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

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// limitations under the License.

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

package compute

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

gax "github.com/googleapis/gax-go/v2"  
google.golang.org/api/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.TestIamPermissionsResponse, error)
// LicenseCodesClient is a client for interacting with Google Compute Engine API. // Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls. // The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

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

// Wrapper methods routed to the internal client.

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

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

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

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

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

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

  // The http client.
  httpClient *http.Client

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

// 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
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%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 httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
}
return rsp, unm.Unmarshal(buf, rsp)

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

package compute_test

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

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    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.
    }
    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.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
        }
    // TODO: Use resp.
    _ = resp
}

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1.466 dnsutils v1.0.1

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1.468 stretchr-objx v0.1.0

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1.474 golang-org-x-sys 20210809-snapshot-d867a43f

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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, 17)

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.Fatalf("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 gopts 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
        }
        return needsCopyright
    })
    return files, err
}
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "testdata") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?\)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}
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1.478 miekg-dns v1.1.25

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1.479 azure-storage-blob-go v0.6.0

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```go
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, 17)

    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.Fatalf("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)
    }

```
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
        }
        files = append(files, needsCopyright)
        return nil
    })
    return files, err
}
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/”) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
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.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%v", strings.Join(files, "\n"))
    }
}
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1.491 eapache-go-resiliency v1.2.0

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1.492 prometheus-common v0.4.1

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1.493 golang-org-x-text v0.3.6

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1.494 pkgerrors v0.9.1

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1.495 mattn-go-isatty v0.0.11
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1.496 fatih-color v1.9.0

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1.497 sigs-k8s-io-yaml v1.1.0
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1.498 gorilla-websocket v1.4.1

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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, 17)

    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.Fatalf("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 nil, err
        }
        return files, err
    })
    return files, err
}
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
})
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := filepath.ToSlash(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
        }
    }

    return shouldAddCopyright, nil
}
if copyrightRe.MatchString(c.Text()) {
    shouldAddCopyright = false
    break
}
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
for _, commentGroup := range file.Comments {
    for _, comment := range commentGroup.List {
        if matched := generatedRx.MatchString(comment.Text); !matched {
            continue
        }
        // Check if comment is at the beginning of the line in source.
        if pos := fset.Position(comment.Slash); pos.Column == 1 {
            return true
        }
    }
}
return false
}

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package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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.HasPrefix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
          %s
        
        \n        
        "+strings.Join(files, ",
    )
}
1.500 google-go-genproto 20200305-snapshot-50648415

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1.501 golang-mock v1.2.0

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1.502 github.com/moby/spdystream v0.2.0

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1.516 gorhill-cronexpr 20180427-snapshot-88b0669f

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1.518 go.googlesource.com/tools 20200330-snapshot-a30bf2db

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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 is
  // not supported for those versions.
  testenv.NeedsGo1Point(t, 17)

  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.Fatalf("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.Errorf("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.

copyright

import {
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "io/ioutil"
    "path/filepath"
    "regexp"
    "strings"
}

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

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// // https://golang.org/s/generatedcode
// var generatedRx = regexp.MustCompile("// .*DO NOT EDIT\.")
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

1.519 golang-org-x-sys 20210616-snapshot-59db8d76

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != "\.go" && ext != "\.proto" {
return nil
}  
if strings.HasSuffix(path, ".pb.go") {
  // .pb.go files are generated from the proto files.
  // .proto files must have license headers.
  return nil
}  
if path == "bigtable/cmd/cbt/cbtdoc.go" {
  // Automatically generated.
  return nil
}  
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
  // BSD license, which is compatible, is embedded in the file.
  return nil
}  
src, err := ioutil.ReadFile(path)
if err != nil {
  return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q", path, sentinel)
    return nil
  }
}

//

return nil
})
if err != nil {
  t.Fatal(err)
}

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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, 17)
    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()
    out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
        t.Fatalf("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 {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

// checkFile checks the file at path and returns true if it needs a copyright notice.
func checkFile(dir, path string) (needsCopyright bool, err error) {
    // Check if the file has the correct copyright notice.
    // If not, return true and the error.
    // Otherwise, return false and nil.
    return false, nil
}

// main function to test the copyright checker.
func main() {
    // Call checkCopyright with a directory.
    files, err := checkCopyright("./src")
    if err != nil {
        panic(err)
    }
    // Print the files that need a copyright notice.
    for _, file := range files {
        fmt.Println(file)
    }
}
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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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:
%v", strings.Join(files, "\n"))
    }
}

1.525 google-go-genproto 20210813-
snapshot-db860fec

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1.526 golang-org-x-net 20190402-snapshot-eb5bcb51

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1.530 go-testify v1.2.2

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1.531 jpillora-backoff 20180909-snapshot-3050d21c

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1.532 go.googlesource.com/tools 20190312-snapshot-e65039ee

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package hooks

import (
    "bytes"
    "io/ioutil"
    "os/exec"
    "runtime"
    "testing"
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
estenv.NeedsGo1Point(t, 17)

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

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

func checkFile(toolsDir, filename string) (needsCopyright bool, err 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
    }
    return needsCopyright, err
}
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}
package hooks

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

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

1.533 mod v0.4.2
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package lambda

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

    "github.com/awslabs/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
    Metadata       map[string]interface{}
    DeletionPolicy policies.DeletionPolicy
  }{
    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(b []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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1.540 pq v1.0.0

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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
}

// Wrapper methods routed to the internal client.

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

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

// Connection returns a connection to the API service.

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

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 *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
    *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsLicenseCodeResponse, 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/licenseCodes/%v/testIamPermissions",
        req.GetProject(), req.GetResource())

    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.TestPermissionsResponse{}

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

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package compute_test

import (  

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

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

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

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

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

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

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
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#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp
}

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package compute
import (
    "bytes"
    "context"
    "fmt"
    "io/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(...string)
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.
endpoint string

// 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/")
}
}

// 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{
        "requestId": fmt.Sprintf("%v", req.GetRequestId()),
    }
    baseUrl.RawQuery = params.Encode()

    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 := &compute pb.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 *compute pb.GetLicenseRequest, opts ...gax.CallOption) (*compute pb.License, error) {
    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
    }

    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{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()

    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.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 := &computeop.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 *computeop.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computeop.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([][]*computeop.License, string, error) {
        resp := &computeop.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{
            "filter": fmt.Sprintf("%v", req.GetFilter())
        }
        if req != nil & req.Filter != nil {
        }
        if req != nil & req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
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

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

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

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

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

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

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

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

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

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

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

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1.542 golang-org-x-text v0.3.3

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1.543 googlecloudgo v0.46.3

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package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing"
)

var sentinels = []string{
  "Copyright",
  "Google",
  "Licensed under the Apache License, Version 2.0 (the "License");",
}
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
    if err != nil {
        t.Fatal(err)
    }
}

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1.553 golang-org-x-sys 20200511-snapshot-7e40ca22

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1.554 goleak v1.0.0

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1.555 fsnotify-fsnotify v1.4.7

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1.556 go.googlesource.com/tools 20191224-snapshot-7b8e75db

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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, 17)
    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.Fatalf("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 {
      files = append(files, path)
    }
    return nil
  })
  return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`)
func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/"") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
// var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {

for _, commentGroup := range file.Comments {
    for _, comment := range commentGroup.List {
        if matched := generatedRx.MatchString(comment.Text); !matched {
            continue
        }
        // Check if comment is at the beginning of the line in source.
        if pos := fset.Position(comment.Slash); pos.Column == 1 {
            return true
        }
    }
    return false
}

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

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

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

1.557 gomega v1.7.0
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1.558 golang-org-x-sys 20210806-snapshot-e5e7981a

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package cloud

import (  
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{  
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {  
    t.Parallel()
    skip := map[string]bool{  
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,
        // BSD license, which is compatible, is embedded in the file.
        "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,
        "third_party/pkgsite/print_type.go": true,
        "third_party/pkgsite/synopsis.go": true,
    }
    err := filepath.Walk("./", func(path string, fi os.FileInfo, err error) error {  

if err != nil {
    return err
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if skip[path] {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}
return nil
}
if err != nil {
    t.Fatal(err)
}

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1.560 mergo 0.3.12

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

fields:
  site: string
  author: root

1.561 dominikh-go-tools 20190523-snapshot-ea95bdfd

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

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*/

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

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 */
```

--------------------------------------------------

For the `stdint.h`:

```c
// 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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1.564 github.com/golang-jwt/jwt v4.0.0

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

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1.571 golang-org-x-lint 20190930-snapshot-16217165

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
`) const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != "sh" {
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return err
        }
    })
}

return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
}
if err != nil {
    t.Fatal(err)
}

1.586 golang-protobuf v1.5.2

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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.
tenv.NeedsGo1Point(t, 17)

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.Fatalf("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 {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}
files = append(files, path)
}
return nil
})
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
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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// +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:\n%s", strings.Join(files, "\n"))
    }
}
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package hooks

import (
    "bytes"
    "io/ioutil"
    "os/exec"
    "runtime"
    "testing"
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 17)

    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.Fatalf("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 {
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))

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return true
}

return false
#
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const licensesText = `
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import (
    "os"
    "path/filepath"
    "strings"
    "testing"
)

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

1.599 google-go-genproto 20200312-snapshot-da6875a3
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procfs provides functions to retrieve system, kernel and process
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1.608 go-testify v1.5.1
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1.609 google-api-go-client v0.30.0
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package api

import {
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
}

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
`) const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        } else if err != nil {
            return err
        }
        if !strings.HasPrefix(fi.Name(), prefix) {
            return fmt.Errorf("%s does not start with %s", fi.Name(), prefix)
        }
        return nil
    })
    if err != nil {
        return
    }
}
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
}
return nil
}

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

1.610 golang-org-x-net 20200130-snapshot-16171245

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1.611 elastic/go-licenser v0.4.0

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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()),
}
type args struct {
r
io.Reader
header []string
}
tests := []struct {
name string
args args
want bool
}{
{
name: "ContainsHeader returns false empty line reader",
args: args{
r:
strings.NewReader(""),
header: exampleHeader,
},
want: false,
},
{
name: "ContainsHeader returns false on single 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(

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fmt.Sprintln(
    "a reader has just one line\n a reader has two lines",
),
),
header: exampleHeader,
},
want: false,
},
}{
name: "ContainsHeader returns false on three line reader",
args: args{
  r: strings.NewReader(
    fmt.Sprintln(
        "a reader has just one line\n a reader has two lines\n a reader has three lines",
    ),
),
header: exampleHeader,
},
want: false,
},
}{
name: "ContainsHeader returns false on reader that doesn't match the license year",
args: args{
  r: strings.NewReader(
    fmt.Sprintf(`
    // Copyright %d The 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.
    `)
),
header: exampleHeader,
},
want: false,
},
}{
name: "ContainsHeader returns true on reader that matches the license text",
args: args{
  r: strings.NewReader(
    fmt.Sprintf(`
    // Copyright \%d The elastic/go-licenser Authors. All rights reserved.
    `)
),
header: exampleHeader,
},

package mypackage

want: true,
}

name: "ContainsHeader returns true on reader that matches the ASL license text",
args: args{
  r: strings.NewReader(`
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// KIND, either express or implied. See the License for the
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`)

want: true,
}

})}
func somefunc() {}
`[1:];
",
header: []string{
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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.Error("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:]

import 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\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

name: "Rewrite succeeds with a file that has some contents",

args: args{
    path: licenseWeirdLocation,
    header: []byte(`
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// KIND, either express or implied. See the License for the
// specific language governing permissions and limitations
// under the License.
`[1:]),

wantErr: false,

want: []byte(`
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// Package main is the main drill
package main

`[1:]},

wantErr: false,
want: []byte(`
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// Package main is the main drill
package main

`[1:]})
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.Errorf("failed reading contents of temp file")
    }
    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(
fmt.Sprint(`
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`[1:],
),
),
headerLines: []string{
"elastic/go-licenser Authors. All rights reserved.",
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"// be found in the LICENSE file.",
},
},
want: true,
},
{
name: "ContainsHeader returns false on reader that matches some the lines",
args: args{
r: strings.NewReader(
fmt.Sprint(`
// Package mypackage this package does things.
`[1:],
),
),
headerLines: []string{
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"// be found in the LICENSE file.",
},
},
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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type args struct {
    r io.Reader
}

tests := []struct {
    name string
    args args
    want []byte
}
{
    name: "Simple header is detected",
    args: args{
        r: strings.NewReader("// Copyright 2017 The elastic/go-licenser Authors. All rights reserved.
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package mypackage
"[1:]",
),
},
    want: []byte(singleHeader),
},
{
    name: "Simple header with build tag is detected",
    args: args{
        r: strings.NewReader("// +build mybuildtag\n\n" + 

package mypackage
"[1:] + "// +build mybuildtag\n\n" + `)
},
    want: []byte(singleHeader),
},
{
    name: "Simple header with package comments build tag is detected",
    args: args{
        r: strings.NewReader("// Copyright 2017 The elastic/go-licenser Authors. All rights reserved.
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package mypackage
"[1:] + "// +build mybuildtag\n\n" + `)
// be found in the LICENSE file.

// Package mypackage does a lot of stuff, here's what it does
package mypackage
`[1:],
).
],
want: []byte(singleHeader),
},
{name: "duplicated header header with package comments is detected",
args: args{
r: strings.NewReader(`
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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.

`[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))
        }
    })
}
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)  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

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// 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
            }
        }

        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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Protocol Buffers for Go with Gadgets

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

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1.615 modern-go-reflect2 1.0.1

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1.616 golang-org-x-sys 20200430-snapshot-10377860

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1.617 pkgerrors v0.8.0
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1.618 docker-go-units v0.4.0

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1.619 joeshaw/multierror 20140124-snapshot-69b34d4e

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1.620 golang-protobuf 20200220-snapshot-67d41d38

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\*)*( All rights reserved\.)\*)"
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const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "googleapi/internal/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }
    if err != nil {
      return err
    }
    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    // Verify that the license is matched.
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }
    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix))) {
      t.Errorf("%v: license header not at the top", path)
    }
    return nil
  })
  if err != nil {
    t.Fatal(err)
  }
}
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1.623 golang-org-x-lint 20190215-snapshot-5b3e6a55

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1.624 mod v0.5.1

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1.625 cyphar-filepath-securejoin v0.2.2

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1.626 googlecloudgo v0.56.0
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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk("./",
        func(path string, fi os.FileInfo, err error) error {
            if err != nil {
                return err
            }
            if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
                return nil
            }
            if ext := filepath.Ext(path); ext != ".go" {
                return nil
            }
            if strings.HasSuffix(path, ".pb.go") {
                // .pb.go files are generated from the proto files.
                // .proto files must have license headers.
                return nil
            }
            if path == "bigtable/cmd/cbt/cbtdoc.go" {

// Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Errorf("%v: license header not present. want %q", path, sentinel)
return nil
}
}
return nil
})
if err != nil {
t.Fatal(err)
}

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1.629 golang-org-x-crypto 20200622-snapshot-75b28801

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

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

### Tip
```%
{{%/* notice tip */%}}
Une notice de type *tip*
{{%/* /notice */%}}
``` s'affiche comme
The notice shortcode shows 4 types of disclaimers to help you structure your page.

### Note

renders as

```
{{% notice note %}}
A notice disclaimer
{{% /notice %}}
```
An information disclaimer

### Tip

```{/* notice tip */}
A tip disclaimer
{ /* /notice */}
```

renders as

```{/* notice tip */}
A tip disclaimer
{ /* /notice */}
```

### Warning

```{/* notice warning */}
An warning disclaimer
{ /* /notice */}
```

renders as

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1.638 go-testify 20170601-snapshot-f6abca59
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1.639 term 20201126-snapshot-7de9c90e

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1.640 microsoft-go-winio v0.4.15

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1.641 cloudfoundry/go-diodes 20190808-snapshot-f77fb823

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tomb - support for clean goroutine termination in Go.

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1.648 go.googlesource.com/tools v0.1.0

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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, 17)
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.Fatalf("generating licenses failed: %q, %v", out, err)
}

got, err := ioutil.ReadFile(tmp.Name())
if err != nil {
    t.Fatal(err)
}
tmp.Close()

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 {
        files = append(files, path)
    }
    return nil
})
return files, err

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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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
    }
    if copyrightRe.Match(content) {
        return true, nil
    }
    return false, nil
}
return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)
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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"))
    }

1.649 go-tomb-tomb 20150422-snapshot-dd632973

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tomb - support for clean goroutine termination in Go.

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1.650 golang-org-x-sys 20210530-snapshot-9665404d

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1.655 httpmock v1.0.4

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1.656 go-check-check 20201130-snapshot-10cb9826
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1.657 golang-org-x-xerrors 20200804-snapshot-5ec99f83
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1.658 dominikh-go-tools 20190417-snapshot-e561f679

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

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

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1.660 eclipse-paho-mqtt-golang v1.3.5

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1.662 godbus/go.dbus v5.0.4

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1.663 google-go-cmp v0.5.6

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1.664 grpc-go v1.27.0

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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, 17)
  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.Fatalf("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 gopts 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
        }
        return []string{needsCopyright}
    })
    return files, err
}
if needsCopyright {
    files = append(files, path)
} 
return nil 
})
return files, err 
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil 
    } 
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/" ) {
        return false, nil 
    } 
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil 
    } 
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    } 
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err 
    } 
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    } 
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        } 
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        } 
    } 
    return shouldAddCopyright
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --
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// +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.Fatalf("current working directory is %s, expected tools", tools)
}

files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}

if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
}
}
1.666 devigned/tab 20190607-snapshot-0c15cf42

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1.667 golang-org-x-sys 20200202-snapshot-d101bd24

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

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1.672 grpc-go v1.40.0

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1.673 golang-org-x-sys 20200916-snapshot-d9f96fde

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

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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 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

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}
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

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}
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 {
    return err
}
return 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

// 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/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {  
if params == nil {  
params = &CheckInLicenseInput{  
  }
  }
  
result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, c.addOperationCheckInLicenseMiddlewares)  
if err != nil {  
return nil, err  
  }
  
out := result.(*CheckInLicenseOutput)  
out.ResultMetadata = metadata  
return out, nil  
}

type CheckInLicenseInput struct {  
  // License consumption token.  
  //  
  // This member is required.  
  LicenseConsumptionToken *string}
// License beneficiary.
Beneficiary *string

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}  

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

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 = 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
}
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
// 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 = 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 = 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

// License details.
License *types.License

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

func (c *Client) addOperationGetLicenseMiddlewares(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
    }
}
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.CloseResponseBodyMiddleware(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
}
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

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string
// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = aws Middleware.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 = aws Middleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = aws Middleware.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 = 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/aws-sdk-go-v2/service/licensemanager/types"
// 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
}

// CheckoutLicenseInput

// Checkout type.
// // This member is required.
// CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// // This member is required.
// ClientToken

// License entitlements.
// // This member is required.
// Entitlements

// Key fingerprint identifying the license.
// // This member is required.
// KeyFingerprint

// Product SKU.
// // This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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 = 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 = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

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
    }

    return result, nil
}
out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * Beneficiary
//
// * ProductSKU
//
// * Fingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}

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
}
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_opListLicenses(options.Region), middleware.Before);
if 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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// 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

  nosmithyDocumentSerde
 }

type DeleteLicenseOutput struct {

  // Date when the license is deleted.  
DeletionDate *string
}
// License status.
Status types.LicenseDeletionStatus

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

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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 = 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 = 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/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise

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

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
}
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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
    }

    return result, metadata
}
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
// // This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of // the request.
// // This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration // for workloads running with continuous connectivity. Choose a borrow // configuration for workloads with offline usage.
// // This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
// // This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
// // This member is required.
HomeRegion *string

// License issuer.
// // This member is required.
Issuer *types.Issuer

// License name.
// // This member is required.
LicenseName *string
// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != 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
}
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 = 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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1.675 golang-org-x-sys 20200615-snapshot-f1bc7362

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1.676 golang-org-x-net 20190613-snapshot-d28f0bde

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

1.678 go.googlesource.com/tools 20200204-snapshot-1cc6d1ef
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, 17)

    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
    })
    if err != nil {
        return nil, err
    }
    needsCopyright, err := checkFile(dir, path)
    if err != nil {
        return nil, err
    }
    if needsCopyright {
        files = append(files, path)
    }
    return files
}

return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}
// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT.?
`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

1.679 go-spew v1.1.0
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1.682 devigned/tab v0.1.1

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1.685 grpc-go v1.39.0

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1.686 golang-org-x-time 20200630-snapshot-3af7569d

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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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1.691 golang-org-x-sys 20191024-snapshot-6c3a3bfe

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1.702 golang-org-x-time 20210721-snapshot-1f47c861

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1.703 docker 20170801-snapshot-8af4db6f

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Protocol Buffers for Go with Gadgets

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

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

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

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1.704 golang-org-x-net 20210315-snapshot-d523dce5

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1.705 golang-org-x-sync 20190830-snapshot-cd5d95a4

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1.706 golang-protobuf v1.4.3

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1.707 go.googlesource.com/tools 20200121-
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	number of commits are hard
to estimate. Alternatively,

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, 17)

    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.Fatalf("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) (files []string, err 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
            }
        }
    })
    if err != nil {
        return files, err
    }
    return files, nil
}

Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1  2870
// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
}
return nil
}

needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
}
return files, err
}

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//  // .DO NOT EDIT.
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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package hooks

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

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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, ","))
    } }

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1.709 golang-org-x-sync 20201020-snapshot-67f06af1

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1.711 golang-org-x-oauth2 20201208-snapshot-08078c50

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1.713 golang-org-x-time 20181108-snapshot-85acf8d2

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1.715 groupcache 20200125-snapshot-8c9f03a8

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1.716 golang-org-x-crypto 20210615-
snapshot-5ff15b29

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1.717 golang-org-x-sys 20200121-snapshot-e047566f

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1.718 beorn7-perks v1.0.1
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1.719 go.googlesource.com/tools 20190906-snapshot-2ca71800

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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, 17)

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.Fatalf("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 {
            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, "/yacc.go") {
        return false, nil
    }
    // ...
content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text()); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}
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//go:generate ./gen-licenses.sh licenses.go
package hooks

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

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

1.720 smartystreets-assertions 20180927-snapshot-b2de0cb4

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1.725 microsoft-go-winio 20190918-snapshot-fc70bd9a
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1.726 golang-org-x-sync 20180314-snapshot-1d60e460

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1.727 logfmt 20140226-snapshot-b84e30ac
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1.728 go.googlesource.com/tools 20200724-snapshot-6467de6f
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package hooks

import (  "bytes"  "io/ioutil"  "os/exec"  "runtime"  "testing"
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGo1Point(t, 17)
    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.")
    }
    // Copyright 2020 The Go Authors. All rights reserved.
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    // license that can be found in the LICENSE file.
    //
    //go:build go1.18
    // +build go1.18
    // Package copyright checks that files have the correct copyright notices.
    package copyright
    import {
        "go/ast"
        "go/parser"
        "go/token"
"io/fs"
"io/ioutil"
"path/filepath"
"regexp"
"strings"
)
func checkCopyright(dir string) ([]string, error) {
var files []string
err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
if err != nil {
return err
}
if d.IsDir() {
// Skip directories like ".git".
if strings.HasPrefix(d.Name(), ".") {
return filepath.SkipDir
}
// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
return err
}
if needsCopyright {
files = append(files, path)
}
return nil
})
return files, err
}
var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
Use of this source code is governed by a BSD-style
license that can be found in the LICENSE file.`)
func checkFile(toolsDir, filename string) (bool, error) {
// Only check Go files.
if !strings.HasSuffix(filename, "go") {
return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))

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if strings.Contains(normalized, "/testdata/") {
    return false, nil
}

// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// //
// //https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
return true
}
}
}
return false
}

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const licensesText = `-- github.com/BurntSushi/toml COPYING --
-- 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.Fatalf("current working directory is %s, expected tools", tools)
}

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

1.729 google-api-go-client v0.4.0
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1.732 googlecloudgo v0.44.2

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package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"
)

var sentinels = []string{  
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {  
    t.Parallel()  
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
            return err
        }  
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
            return nil
        }  
        if strings.HasSuffix(path, ".pb.go") {  
            return nil
        }  
    })
}
// .pb.go files are generated from the proto files.
// .proto files must have license headers.
return nil

if path == "bigtable/cmd/ctb/cbtdoc.go" {
// Automatically generated.
return nil
}

if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil

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

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1.735 go-logfmt-logfmt v0.3.0

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1.736 google-go-genproto 20201201-snapshot-b05cb90e

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1.738 golang-org-x-net 20210119-snapshot-5f4716e9

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1.740 josephspurrier/goversioninfo 20190209-snapshot-63e6d1ac

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1.745 go-cfclient 20190808-snapshot-35bcce23
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1.748 google-go-genproto 20190316-snapshot-5fe7a883

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1.751 paesslerag/gval v1.0.0

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1.754 golang-org-x-time 20191023-snapshot-555d28b2

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63515b42
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1.757 golang-mock v1.6.0
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Ryan Barrett <ryanb@google.com>

package empty_interface

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

type Empty interface{}

// This is a mock copyright header.

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// Code generated by MockGen. DO NOT EDIT.
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// 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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1.758 stackexchange-wmi 20180627-snapshot-9f32b590

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1.759 golang-org-x-lint 20210508-snapshot-6edffad5

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1.760 golang-org-x-lint 20181011-snapshot-c67002cb

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1.761 go.googlesource.com/tools v0.1.2
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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, 17)

if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
t.Skip("generating licenses only works on Unices")
}
}
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.Fatalf("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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// license that can be found in the LICENSE file.
//go:build go1.18
// +build go1.18
// Package copyright checks that files have the correct copyright notices.
package copyright
import (
"go/ast"
"go/parser"
"go/token"
"io/fs"
"io/ioutil"
"path/filepath"
"regexp"
"strings"
)
func checkCopyright(dir string) ([]string, error) {
var files []string
err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
if err != nil {

Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1 2988


return err
}
if d.IsDir() {
// Skip directories like ".git".
if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
}
// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
)
return files, err

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

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/" ) {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// \*DO NOT EDIT\.`)
func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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//go:generate ./gen-licenses.sh licenses.go
package hooks
const licensesText = `-- github.com/BurntSushi/toml COPYING --

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// +build go1.18

package copyright

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

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

    // The rest of the code...
}
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"))
}

1.762 golang-org-x-sys 20190916-snapshot-b4ddaad3

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1.763 golang-protobuf 20200313-snapshot-b860323f

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Gocheck - A rich testing framework for Go

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1.765 protobuf v1.23.0

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Protocol Buffers for Go with Gadgets

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

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1.766 golang-org-x-oauth2 20200729-snapshot-5d25da1a
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go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

type Empty interface{}

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// 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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1.768 aec v1.0.0

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1.772 golang-org-x-net 20191108-snapshot-c0dbc17a

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package cloud

import (  "bytes"  "io/ioutil"  "os"  "path/filepath"  "strings"  "testing" )
var sentinels = []string{
   "Copyright",
   "Google",
   `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbt/doc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
    if err != nil {
        t.Fatal(err)
    }
}

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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, 17)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unixes")
    }
}
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
        }
        switch d.Name {
        case "COPYRIGHT",
            "LICENSE",
            "LICENSES",
            "COPYRIGHT.md",
            "COPYRIGHT.txt",
            "LICENSE.md",
            "LICENSE.txt",
            "COPYRIGHT.txt",
            "LICENSE.txt",
            "LICENSE.md",
            "COPYRIGHT.md",
            "LICENSE.md",
            "COPYRIGHT",
            "LICENSE",
        } && !strings.HasPrefix(path, "vendor") => 
            files = append(files, path)
        }
        return nil
    })
    for _, file := range files {
        f, err := os.Open(file)
        if err != nil {
            return nil, err
        }
        defer f.Close()
        contents, err := ioutil.ReadAll(f)
        if err != nil {
            return nil, err
        }
        if !strings.Contains(string(contents), `// Copyright`)
            return nil, fmt.Errorf("%s contains no copyright notice.
            
            This file should contain a copyright notice with the
            following form:
            
            // 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.
            
            // Package copyright checks that files have the correct
            // copyright notices.
            package copyright
            
            import (``
if d.IsDir() {
    // Skip directories like ".git".
    if strings.HasPrefix(d.Name(), ".") {
        return filepath.SkipDir
    }
    // Skip any directory that starts with an underscore, as the go
    // command would.
    if strings.HasPrefix(d.Name(), "_") {
        return filepath.SkipDir
    }
    return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil)
return files, err

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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

package hooks

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

The MIT License (MIT)

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

1.777 googlecloudgo v0.87.0
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

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

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
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) (*computepb.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) (*computepb.Operation, error)
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

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

    // The call options for this service.
    CallOptions *LicensesCallOptions
}
// Wrapper methods routed to the internal client.

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

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

// Connection returns a connection to the API service.
// // Deprecated.
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) (*computepb.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)
(*compute pb.Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

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

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

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

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

    // The http client.
    httpClient *http.Client

    // 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
    }
    return &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        xGoogMetadata: xGoogMetadata{},
    }, nil
}
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.
    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) (*computepb.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 = 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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

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

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

    return rsp, unm.Unmarshal(buf, rsp)
    }
}

// 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) {

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

    if httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }

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

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

    return rsp, unm.Unmarshal(buf, rsp)
    }
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
}
deferr httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)

// 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)

params := url.Values{
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
}
baseUrl.RawQuery = params.Encode()

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
}
def httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

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

return rsp, unm.Unmarshal(buf, rsp)

// 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) (*computepb.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
}
deffer httpRsp.Body.Close()

if httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{
}
return rsp, unm.Unmarshal(buf, rsp)

// 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) (*computepb.LicensesListResponse, error) {
    baseUrl, _ := url.Parse(c.endpoint)
params := url.Values{}
if req != nil && req.Filter != nil {
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

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 httpRsp.StatusCode != http.StatusOK {
    return nil, fmt.Errorf(httpRsp.Status)
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicensesListResponse{...}
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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{
        return rsp, unm.Unmarshal(buf, rsp)
    }

    // 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.

return rsp, unm.Unmarshal(buf, rsp)
}

// 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)
    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, fmt.Errorf(httpRsp.Status)
    }
    defer httpRsp.Body.Close()
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.TestPermissionsResponse{}
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{
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    // Code generated by protoc-gen-go_gapic. DO NOT EDIT.

    package compute_test

    import (
        "context"

        compute "cloud.google.com/go/compute/apiv1"
        computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    )
// TODO: Fill request struct fields.
}
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() {
        ctx := context.Background()
        c, err := compute.NewLicensesRESTClient(ctx)
        if err != nil {
            // TODO: Handle error.
        }
        defer c.Close()

        req := &computepb.GetIamPolicyLicenseRequest{
            // TODO: Fill request struct fields.
        }
        resp, err := c.GetIamPolicy(ctx, req)
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
    }
    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.
    }
    resp, err := c.List(ctx, req)
    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.
    }

```go
func ExampleLicensesClient_TestIamPermissions() {
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    // See the License for the specific language governing permissions and
    // limitations under the License.

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
```
```go
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
}

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

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

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

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

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

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

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}
// 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.
//
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Deprecated.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    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 httpRsp.StatusCode != http.StatusOK {
        return nil, fmt.Errorf(httpRsp.Status)
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.LicenseCode{}
    return rsp, unm.Unmarshal(buf, rsp)
}

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

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

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

    return rsp, unm.Unmarshal(buf, rsp)
}

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package compute_test

import (
    "context"
)

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    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.
    }
    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.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
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1.779 golang-protobuf v1.4.0

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1.780 googlecloudgo v0.94.1

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//
package compute_test

import (
    "context"

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

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

    // TODO: Use client.
    _ = c
}

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

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
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.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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

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

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

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
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 ExampleLicensesClient_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"

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

func ExampleNewLicenseCodesRESTClient() {
  ctx := context.Background()
  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.
  }

  // TODO: Use client.
  _ = c
}
defer c.Close()

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

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

package compute

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

    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.TestIamPermissionsResponse, error)
LicenseCodesClient is a client for interacting with Google Compute Engine API. Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

The LicenseCodes API.

type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

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

// Wrapper methods routed to the internal client.

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

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

// Connection returns a connection to the API service.

// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

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

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

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

// The http client.
httpClient *http.Client

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

// 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
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)
    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.LicenseCode{}
return rsp, unm.Unmarshal(buf, rsp)

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

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf(`/compute/v1/projects/%v/global/licenseCodes/%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{
}
return rsp, unm.Unmarshal(buf, rsp)

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// limitations under the License.

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

package compute

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

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) (*compute.computeengine.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*compute.computeengine.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.
typeLicensesClient 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) {

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

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

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

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

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

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

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

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

    // The http client.
    httpClient *http.Client

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

// NewLicensesRESTClient creates a new licenses rest client.

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
    }

    licensesClient :=& LicensesClient{
        internalClient: licensesRESTClient{
            httpClient: httpClient,
            endpoint: endpoint,
        },
    }
    return licensesClient, 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 = 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.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, 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
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
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 = 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.License{

    }

    return rsp, unm.Unmarshal(buf, rsp)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.

```go
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    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{

    }

    return rsp, unm.Unmarshal(buf, rsp)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.

```go
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    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{

    }

    return rsp, unm.Unmarshal(buf, rsp)
}
```
}

baseUrl.RawQuery = params.Encode()

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
}
deferr 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{}
return rsp, unm.Unmarshal(buf, rsp)
}

// 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 = 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
}
def 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, 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.

```go
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{
        "filter": fmt.Sprintf("%v", req.GetFilter()),
        "maxResults": fmt.Sprintf("%v", req.GetMaxResults()),
        "orderBy": fmt.Sprintf("%v", req.GetOrderBy()),
        "pageToken": fmt.Sprintf("%v", req.GetPageToken()),
        "returnPartialSuccess": fmt.Sprintf("%v", req.GetReturnPartialSuccess()),
      }
      baseUrl.RawQuery = params.Encode()
      if err != nil {
        return nil, "", err
      }
      // Set the headers
      for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
      }
        return c.httpClient.Get(httpReq)
      }, func(error) {
        if err := c.httpClient.Close(); err != nil {
          return err
        }
      })
      if err != nil {
        return nil, "", err
      }
      resp, _, _ := httpResp.(http.LicenseIterator)
      return &LicenseIterator{resp: resp}
    }
    it.InternalFetch(pageSize, pageToken)
    return it
  }
  return nil
}
```

---

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

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

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

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

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

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
}
deferring 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{}

return rsp, unm.Unmarshal(buf, rsp)

// 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)

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
}
deferr 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{
}
return rsp, unm.Unmarshal(buf, rsp)

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

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}
}
// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.

// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

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

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

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

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

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package spec

import "testing"

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

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

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// limitations under the 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"`
OPEN SOURCE USED IN APPDYNAMICS_Beats_Levitate 8.0.0-rc1

string `json:"url,omitempty"

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1.783 k3s-io/klog v2.0.0

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1.788 samuel/go-parser 20150713-snapshot-ca8abbf6

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1.791 elastic/go-licence-detector v0.4.0
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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 {   
Name        string `json:"name"`
Dir        string `json:"dir"`
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

// Load Overrides 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)
            }
            dep.LicenceFile = licFile
        }

        depMap[dep.Name] = dep
    }

    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)
    }
    dep.LicenceFile = licFile
}

depMap[dep.Name] = dep
}

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package validate


if r.Method == http.MethodHead && r.URL.Query().Get("no_head") == "true" { http.Error(w, "method not supported", http.StatusMethodNotAllowed) return 

} if r.URL.Query().Get("valid") == "true" { fmt.Fprintf(w, "OK") } else { http.NotFound(w, r) }}) server.Start() // Normally you would need to use a test server later, like //... server.Close() // URL that you want to validate http://example.com

// check that the server returns the expected status http.StatusOK, http.StatusBadRequest, etc. if r.Method == "GET" { if r.URL.Query().Get("valid") == "true" { fmt.Fprintf(w, "OK") } else { http.NotFound(w, r) } } else { http.MethodNotAllowed(w, r) }

}))
defer 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)},
},
},
{
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)},
},
},
{
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",
deps: &dependency.List{
Direct: []dependency.Info{mkDepInfo("a", true, false), mkDepInfo("b", false, true)},
Indirect: []dependency.Info{mkDepInfo("c", true, false), mkDepInfo("d", true, false)},
},
wantErr: true,
},
{
name: "InvalidIndirectDep",
deps: &dependency.List{

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Direct: [dependency.Info{mkDepInfo("a", true, false), mkDepInfo("b", true, false)}],
Indirect: [dependency.Info{mkDepInfo("c", true, false), mkDepInfo("d", false, false)}],
wantErr: true,
},

name: "InvalidIndirectDepWithUnsupportedMethod",
deps: &dependency.List{
  Direct: [dependency.Info{mkDepInfo("a", true, false), mkDepInfo("b", true, false)}],
  Indirect: [dependency.Info{mkDepInfo("c", true, false), mkDepInfo("d", false, true)}],
  wantErr: true,
},
}

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 }}
>{{ end -}}

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{{ "=" | line }}
Third party libraries used by the go-licence-detector project
{{ "=" | line }}

{{ template "depInfo".Direct }}
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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{}
}
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 {
        rules.Maybelist[y] = struct{}{}
    }
    return rules, nil
}

// IsAllowed returns true if the given licence is allowed by the rules.
func (r *Rules) IsAllowed(licenceID string) bool {
    _, isAllowListed := r.AllowList[licenceID]
}
_, isMaybeListed := r.MaybeList[licenceID]
return isAllowListed || isMaybeListed
}

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

import (
    "context"
    "errors"
    "fmt"
    "io"
    "io/ioutil"
    "log"
    "net/http"
    "runtime"
    "sync/atomic"
    "time"

    "go.elastic.co/go-licence-detector/dependency"
    "golang.org/x/sync/errgroup"
)

// maxErrors is the number of errors after which the validation loop will short-circuit.
// 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()

    var errorCount 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:
                        }
                }
            return nil
        }

        if err := group.Wait(); err != nil {
            return fmt.Errorf("validation encountered an error: %w", err)
        }

        if count := atomic.LoadUint32(&errorCount); count > 0 {
            return fmt.Errorf("encountered %d validation errors", count)
        }

        return nil
    })

    return nil
}
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)
    }

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

return resp.StatusCode, nil

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package dependency

import (
    "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

package 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"
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)  
}  

deffer 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, fmt.Errorf("failed to parse dependencies: %w", err)
            }

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

    return deps, nil
}

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
}

    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
        }

        // 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)
            }
        }
    }
}

return depInfoList, nil
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),
        URL:                     determineURL(override.URL, m.Path),
        LicenceFile:             override.LicenceFile,
        LicenceType:             override.LicenceType,
        LicenceTextOverrideFile: override.LicenceTextOverrideFile,
    }
}

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.
        // 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{
        "lic[cs]en[cs]es?",
        "legal",
        "copy\{(left\|right\}\)",
        "unlicense",
        "l?gpl\{(-\_ v\}\)?(\d\.?d)?",
        "bsd",
        "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) {
    return a
}

func findLicenceFile(root string, licenceRegex *regexp.Regexp) (string, error) {
    return b
}
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
    return matches[0].Name, nil
}

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// Generated documentation. Please do not edit.
:page_id: dependencies
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"]
===
| Name | Version | Licence |
{{ template "depRow" .Direct }}
===

{{ if .Indirect }}
[float]
[id="{p}-dependencies-indirect"]
== Indirect dependencies
Dependencies included in the {n} container image.

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

custom lib render

import (  
"bytes"  
"fmt"  
"go/build"  
"io"  
"log"  
"os"  
"path/filepath"  
"regexp"  
"strconv"  
"strings"
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)
    }
    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:
// v1.2.3-20200707-123456abc => 123456abc
func Revision(in string) string {
    matches := regexRevision.FindStringSubmatch(in)
    return regexGroup(regexRevision, "revision", matches)
}

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
    additonalLicenceText(&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.Fatalf("Failed to open licence file %s: %v", depInfo.LicenceFile, err)
    }
    defer f.Close()

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

    return buf.String()  
} 

func additonalLicenceText(buf *bytes.Buffer, depInfo dependency.Info) {
    txtFunc, ok := extraTextByLicence[depInfo.LicenceType]
    if !ok {
        return
    }
    txt := txtFunc(depInfo)
    buf.WriteString(txt)

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package detector

import (
    "os"
    "testing"
)

"github.com/stretchy/testify/require"
"go.elastic.co/go-licence-detector/dependency"

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(),
                }
            },
            wantErr: false,
        },
    }
    for _, tc := range testCases {
        t.Run(tc.name, func(t *testing.T) {
            d := dependency.New(tc.includeIndirect)
            overrides := tcoverrides(d)
            if tc.wantErr {
                t.Error(overrides)
            } else {
                list := tc.wantDependencies()
                t.AssertEqual(d, list)
            }
        })
    }
}

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// under the License.
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(),
  },
},

wantDependencies: func() *dependency.List {
  return &dependency.List{
    Direct: mkDirectDeps(),
  },
},

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

name: "WithOverridenLicenceFileOverride",
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(),
  },
}
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, tc.overrides, 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: "v0.0.0-20170606183049-ed3d087f40e2",
            VersionTime: "2017-06-06T18:30:49Z",
            Dir: "testdata/github.com/dgryski/go-minhash@v0.0.0-20170606183049-ed3d087f40e2",
            LicenceType: "MIT",
            LicenceFile: "testdata/github.com/dgryski/go-minhash@v0.0.0-20170606183049-ed3d087f40e2/COPYING",
            URL: "https://github.com/dgryski/go-minhash",
        },
    }
}

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",
        },
    }
}
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: "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: "v0.0.0-2016120514322-d520615e531a",
            VersionTime: "2016-12-05T14:13:22Z",
            Dir: "testdata/github.com/gorhill/cronexpr@v0.0.0-2016120514322-d520615e531a",
            LicenceType: "GPL-3.0",
            LicenceFile: "",
            URL: "https://github.com/gorhill/cronexpr",
        },
    }
}

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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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)
    })

    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 v0.0.0-2020042202327-879eb1424de0  
github.com/karrick/godirwalk v1.15.6  
github.com/markbates/pkger 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

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Module : github.com/google/licenseclassifier
Version : v0.0.0-20200402202327-879cb1424de0
Time : 2020-04-02T20:23:27Z
Licence : Apache-2.0

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--------------------------------------------------------------------------------
Module : github.com/karrick/godirwalk
Version : v1.15.6
Time    : 2020-04-08T22:16:01Z
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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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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
  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
  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
## 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.

```go
package detector

import (
    "github.com/markbates/pkger"
    "github.com/markbates/pkger/pkging/mem"
)

var _ = pkger.Apply(memp.UnmarshalEmbed([]byte(`1f8b08000000000000000ffecf867afe5ba8e2e0aff958389f79babb7b33d5c
d9e3d3c9cb37d0683887e19cedcf6ee2f6f65ad5ab576f70ea70f2e2eb02b63087488aa2258aa2e4e73f3faba18968
faafff9510e79cd7b859ebf42fe90096e3cbf857947f7694f659bee6e93acc9f4a5c3d7f7cd8f8f89f8b4a13b12b8cc2958d6
6b5255f49870efc31fcbf1dfb5e3d98dc3bc1af15a70f17c173ef6e5438bbbfce3eb4717df7c7970f6e483f3be7e7c7cf9
70e29b9cc75f6691df4d6b1600dc32f8a1f5f3ed4f784db8fa5fffa32f1fafffeec535ee336ff8bae5bfe83b1f27819fa8fa
f1ece27f7f8b2c7c1c6f2c67df3ebfffa659de530956d0e7efbe092a76dbc2c7551e7338a7c3d97bf0af2784eab255f1c17
578e77d7de79fd31207a16e4e5731e9f8b84b397ccce66b7f7be498b362e3f6ecf732781bf4f05f54ffe99afae3c7f5afe
d754f7b8adb378c3f3be7cd4c3b71fb01eb6b56e3fbe7cb4e3e75286e573895c3e7e5baf7a53ea3d07d7f8d37eb215df46
```

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Open Source Used In Appdynamics_Beats_Levitate 8.0.0-rc1

85936ab10f50561e23a9f8e293f929b2c8239222534584498d953fd7e6a72875316a221ed3f6542417b8e0ac8a36801f75dce42b4a2065a65a954ed3f3ee700d5965a4586897a11733ecbc7284251c7527421ad64461477of905894293b3f7b911fa7ae277440ced2b1a6f2fda4ed52d9d59e611b10539566e016213c940314683dd12b13dca1781be924b2e80f8a8775f731fa1ac8227e79f3c12393d3482a5e2a20abfd69064753582f535a2d21170cc8bb9030c67ef592fdac9e97a888793ce0b081827e75317012a29de96e14504ee5040e10e57599bb83787f915a2a29f91d2ed6a7aaa875ee080786df35520b887b34811bd20eb765b6d4c43c8dc2dfe7c799b64c2f624576ed6065ec12a042145df5a6052a800be4ee171473713701ec3d321b765bc8dfb19e95d56e3ca043d3e4ce8dafa7c8a2143ed1d08ac9e209754eae5d50617ed65080f2af25070a2a616d43e79283d218c3b061498b0c2e1818137ac96f08b44a1117de2b1520b05d089a092fe10b8edca4a6a37c2a1143b3a0d759a72eb0a1b8769353552546dfc9b9b73c9b796c1416676622181432334a50779269b46dac30636655deca2b3be3f8690132a979bfc9e2016e1735fbc20a1d1ac7b608c1d88e4598168722110f3b964668168d6b9154c14545e5edbd4e18d1178618f015d7edf8189b757d838a1069a5e143f545e03031b04e60a737d0afab7277929db9383e3cd3b1c456f9948301305130305130410543b69970c92071c1c79259491b6a3573e7c7e2189b79d8d8a5099c127121800002140dfdf4f13b1ef728776ed2f868ae6ad57950ff2d5b240ca4bb2518b6384d94212bab35652a61346e3fdbe1f84196d45cbe55a2a356cd3e56420950e1aadfa2fab0ff3b855401b1b84cd425d4b328a813a70b3ed186868b95c1f7a14e23093dfd914a9e417c900257cd6dd6504e144879752a8755791139f2a58908e6a2d862635931a03c0c3e0b1070725c058d78963a26cd5ed5559b68675e7778ce13453a6a933b2ccfe600ab7b77aff0110617b2305d54a966aad3a2bed92a3e8a79471b046391fa3387401eeb9a1e29849638857c03b0a401b6428461078860156520420004599a09ca6e2a4cfa2453e5ab2886dd74913139faa8198520e1def538e6a9383f2a8ead6f78776a2ca6d383f330087ec03740896b16540f49009d7019050e37d2280290456088b4a9b9757819d0522041605e7c987913b9d803140f997b0f99ff487384352e3b8c0ede00156047e996a3e851e0b1a1882d425d4b328a813a70b3ed186868b95c1f7a14e23093dfd914a9e417c900257cd6dd6504e144879752a8755791139f2a58908e6a2d862635931a03c0c3e0b1070725c058d78963a26cd5ed5559b68675e7778ce13453a6a933b2ccfe600ab7b77aff0110617b2305d54a966aad3a2bed92a3e8a79471b046391fa3387401eeb9a1e29849638857c03b0a401b6428461078860156520420004599a09ca6e2a4cfa2453e5ab2886dd74913139faa8198520e1def538e6a9383f2a8ead6f78776a2ca6d383f330087ec03740896b16540f49009d7019050e37d2280290456088b4a9b9757819d0522041605e7c987913b9d803140f997b0f99ff487384352e3b8c0ede00156047e996a3e851e0b1a
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
      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 .
  - name: Create release
    id: create_release
    uses: actions/create-release@v1
    env:
      GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
    with:
      tag_name: ${{ github.ref }}
      release_name: ${{ github.ref }}
      draft: false
  - name: Upload artifacts
    uses: actions/upload-release-asset@v1.0.1
    env:
      GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
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":   "",
    "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",
}
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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Version 3, 29 June 2007

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github.com/stretcher/testify v1.3.0/go.mod h1:M5WlY9h2l1EFnGCwXGe5bZfKNJtHm1NVUvGzn+9EI=
github.com/stretcher/testify v1.4.0 h1:2E4SXV/wtOkTonXsoTl4i6zVWxYIZuYNCE9x9XRJyk=
github.com/stretcher/testify v1.4.0/go.mod h1:j7eGeouHqKxzV5pUuKE4zzdfj8WuZ+81PSLYec5m4=
github.com/stretcher/testify v1.6.1 h1:8dDPHmp0opP40ISULqz7rRb/h7w6R6pPDC0999XyoNd0=
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gopkg.in/check.v1 v0.0.0-20161208181325-20d25e280405/go.mod
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h1:Co6ibVJAZnAalqk8huTwlJQZC0v6jof/cbN4VW5Yz0=
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gopkg.in/yaml.v2 v2.2.2/go.mod h1:hi93xBmqsStsBFMUTm0b8Fm+jr3Dg1NWXqwp+5A1GVu=
gopkg.in/yaml.v2 v2.2.4 h1:eiRjUcuPyveJ3xISWaiNi3uSVmIDGBK1pDHUIHAnaol1=
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1.792 googlecloudgo v0.50.0

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package cloud

import {
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
}

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(
        ".",
        func(path string, fi os.FileInfo, err error) error {
            if err != nil {
                return err
            }
            if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
                return nil
            }
            if strings.HasSuffix(path, ".pb.go") {
                // .pb.go files are generated from the proto files.
                // .proto files must have license headers.
                return nil
            }
            if path == "bigtable/cmd/cbt/cbtdoc.go" {
                // Automatically generated.
                return nil
            }
            if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
                // BSD license, which is compatible, is embedded in the file.
                return nil
            }
            src, err := ioutil.ReadFile(path)
            if err != nil {
                return nil
            }
            return nil
        })
}

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// See the License for the specific language governing permissions and
// limitations under the License.
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil

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

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1.793 golang-org-x-sys 20201109-snapshot-5cba9828

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1.800 google-api-go-client v0.18.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\d\)\*\*\* All rights reserved\(\d\)\*\*\*
(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"
// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }

    if err != nil {
      return err
    }

    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
      return nil
    }

    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }

    // Verify that the license is matched.
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }

    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && bytes.HasPrefix(src, []byte(prefix)) {
      t.Errorf("%v: license header not at the top", path)
    }
    return nil
  })
  if err != nil {
    t.Fatal(err)
  }
}
1.801 aws-sdk-for-go v1.19.48

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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, 17)
    runtime.GOOS = "linux" && runtime.GOOS != "darwin"
    err := t.Skip("generating licenses only works on Unixes")
    if err != nil {
        t.Fatal(err)
    }
    tmp := ioutil.TempFile("", ".")
    tmp.Close()
    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
        t.Fatal(err)
t.Fatalf("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 {
    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
    }

    return true, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
//https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT`)
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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.HasPrefix(filepath.Base(tools), "tools") {
        t.Fatal("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
}
t.Fatal(err)
}
if len(files) > 0 {
  t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
}

1.803 google-api-go-client v0.29.0
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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|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.
"

const prefix = "// Copyright"
// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        if err != nil {
            return err
        }
        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }
        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}
1.804 golang-org-x-sys 20190812-snapshot-fde4db37

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1.805 golang-org-x-sys 20191112-snapshot-59a1497f

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